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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

TECHNICAL MEMORANDUM X-301

INVESTIGATION OF THE LOADING CHARACTERISTICS OF
THE LIFTING SURFACES AND THE SPEED BRAKES OF A 0.067-SCALE
MODEL OF THE NORTH AMERICAN X-15 AIRPLANE (CONFIGURATION 3)
AT MACH NUMBERS OF 2.29, 2.98, AND 4.65*

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SUMMARY

An investigation was made in the Langley Unitary Plan wind tunnel to determine the normal-force, bending-moment, and torsion-moment characteristics on the lifting surfaces and the speed brakes of a 0.067-scale model of the North American X-15 airplane (configuration 3). The investigation included the determination of the loading characteristics on the left- and right-wing panels, the left and right horizontal-tail panels, the movable portions of the upper and lower vertical-tail panels, and the upper and lower speed brakes. The investigation was made at Mach numbers of 2.29, 2.98, and 4.65 and at several Reynolds numbers, based on the wing mean aerodynamic chord, from approximately 0.5×10^6 to 4.4×10^6 . The results of this investigation are presented in tabular form without analysis.

INTRODUCTION

The development of the North American X-15 research airplane is a coordinated effort between the National Aeronautics and Space Administration, the United States Air Force, and the United States Navy. The X-15 is a manned, rocket-powered configuration designed to obtain research information throughout a flight trajectory that includes operation outside the earth's atmosphere at high supersonic Mach numbers. As part of the development program, an investigation of the surface loading characteristics of a 0.067-scale model of the X-15 (configuration 3) has been made in the Langley Unitary Plan wind tunnel. The

*Title, Unclassified.

RESULTS

results of this investigation are presented herein in tabular form without analysis. Selected results have been plotted for purposes of illustration. Results obtained in some previous tunnel investigations of models of the X-15 airplane are presented in references 1 to 6. The aerodynamic force and moment coefficients for the model of the present investigation were obtained concurrently with the load results reported herein and are reported in reference 5. The pressure-distribution results obtained on a model of an X-15 configuration of the same scale are reported in reference 6.

SYMBOLS

C_B	bending-moment coefficient, $\frac{\text{Bending moment}}{q(S_b)_{\text{panel}}}$	L 3 5 0
C_M	torsion-moment coefficient, $\frac{\text{Torsion moment}}{q(S_c)_{\text{panel}}}$	
C_N	normal-force coefficient, $\frac{\text{Normal force}}{q(S)_{\text{panel}}}$	
b	span of panel, in.	
c	chord, in.	
\bar{c}	mean aerodynamic chord, in.	
M	free-stream Mach number	
p	free-stream static pressure, lb/sq ft	
q	free-stream dynamic pressure, $0.7pM^2$, lb/sq ft	
R	Reynolds number based on total mean aerodynamic chord of wing determined from total planform area of wing including fuselage intercept	
S	area of panel, sq ft	
α	angle of attack of model referred to fuselage reference line, positive when nose of model is raised from horizontal, deg	

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3

β angle of sideslip of model referred to plane of symmetry,
positive when model nose is left of tunnel center line,
deg

δ control-surface or speed-brake deflection for control surfaces,
positive when trailing edge of surface is deflected down or to left, deg

Subscripts:

L H horizontal tail

3 L left

5 R right

0 S speed brake

V V vertical tails

nom nominal

Configuration component designation:

W wing

F fuselage

H horizontal tail

V upper vertical tail

v lower vertical tail

MEASUREMENTS

The load coefficients measured during this investigation consisted of normal-force, root-bending-moment, and torsion-moment coefficients on the left- and right-wing panels, left and right horizontal-tail panels, the upper and lower vertical-tail panels, and for both upper and lower speed-brake surfaces on the left side. A panel is defined as the movable part of the surface or, in the case of the wings, that portion outboard of the fuselage side fairings.

Measurement Orientation

Forces are presented perpendicular to the chord plane of the surface and, for the speed brakes, perpendicular to the speed-brake surface. Bending-moment coefficients are presented about the root-chord line of the panel for the lifting surfaces (wing, horizontal tail, and vertical tails), and the hinge line of the speed brakes. Torsion-moment coefficients are presented about the hinge line of the horizontal tails and vertical tails and for the speed brakes about a horizontal line passing through the speed-brake center of area. The torsion moments of the wing are presented about a line perpendicular to the root-chord line and located at 51.05 percent chord aft of the leading edge of the root chord in the wing-chord plane.

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Geometric Basis for Coefficients

Force coefficients are based on the area of one panel. Bending-moment coefficients are based on the area of one panel and the span of the panel while the torsion-moment coefficients are based on the area of one panel and the mean aerodynamic chord of the panel. The panel areas, spans, and chords used and the geometric characteristics of the model are presented in the following table:

	Total ^a	Exposed ^b	Panel ^c
Wing:			
Area, sq ft	0.887	0.464	0.232
Span, in.	17.87	11.97	5.98
Aspect ratio	2.50	2.15	1.07
Taper ratio	0.20	0.27	0.27
Sweepback of quarter-chord line, deg	25.63		
Dihedral, deg		0	
Incidence, deg		0	
Geometric twist, deg		0	
Airfoil section:			
Root		NACA 66005 (modified)	
Tip		NACA 66005 (modified)	
Root-chord length, in.	11.91	8.77	8.77
Tip-chord length, in.	2.38	2.38	2.38
Mean aerodynamic chord:			
Length, in.	8.21	6.18	6.18
Distance from root chord, in.	3.48	2.42	2.42
Fuselage:			
Length, in.	39.34		
Width (including side fairing), in.	5.87		
Depth, in.	3.73		
Frontal area, sq in.	10.93		
Overall fineness ratio	10.54		
Side area, sq in.	134.50		
Base area, sq in.	8.02		
Base fairing area, sq in.	2.15		

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5

	Total ^a	Exposed ^b	Panel ^c
Horizontal tail:			
Area, sq ft	d0.495	e0.228	e0.114
Span, in.	d14.47	e9.00	e4.50
Aspect ratio	d2.93	e2.48	e1.23
Taper ratio	0.21	0.30	0.30
Mean aerodynamic chord:			
Length, in.	5.64	3.99	3.99
Distance from root chord, in.	2.92	1.85	1.85
Sweepback of quarter-chord line, deg	45.00		
Dihedral, deg	-15.00		
Geometric twist, deg	0		
Incidence, deg	0		
Airfoil section:			
Root	NACA 66005	(modified)	
Tip	NACA 66005	(modified)	
Root-chord length, in.	8.18	5.59	5.59
Tip-chord length, in.	1.69	1.69	1.69
Upper vertical tail:			
Area, sq ft	0.294	0.181	0.117
Span, in.	5.54	3.67	2.48
Aspect ratio	0.72	0.52	0.37
Taper ratio	0.66	0.74	0.81
Mean aerodynamic chord:			
Length, in.	7.76	7.16	6.79
Distance from root chord, in.	2.58	1.74	1.20
Sweepback of quarter-chord line, deg	23.4		
Airfoil section:			
Root	10° full wedge		
Tip	10° full wedge		
Root-chord length, in.	9.25	8.17	7.49
Tip-chord length, in.	6.05	6.05	6.05
Lower vertical tail:			
Area, sq ft	0.268	0.155	0.088
Span, in.	4.94	3.07	1.88
Aspect ratio	0.63	0.42	0.27
Taper ratio	0.69	0.78	0.85
Mean aerodynamic chord:			
Length, in.	7.91	7.32	6.96
Distance from root chord, in.	2.32	1.47	0.92
Sweepback of quarter-chord line, deg	23.4		
Airfoil section:			
Root	10° full wedge		
Tip	10° full wedge		
Root-chord length, in.	9.25	8.17	7.49
Tip-chord length, in.	6.40	6.40	6.40
Speed brakes:			
Area, sq ft	f0.024	f0.024	
Span, in.	2.67	2.67	
̄, trailing-edge-chord length (used for tabulated area), in.	1.30	1.30	

^aSpan and area include fuselage intercept.

^bSpan and area do not include fuselage intercept and are based on total exposed surface.

^cSpan and area are based on one movable surface.

^dDimensions projected to plan view.

^eDimensions in chord plate.

^fValue based on span and trailing-edge chord.

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The exposed surface is defined as that part of the surface exterior to the fuselage or fairing. The total surface is defined as the exposed part of the surface plus any part of the surface intercepted by fuselage and fairing.

Identification of Signs

A positive force is an upload over the wing and the horizontal-tail panels and a load to the right on the vertical tails and speed brakes. (Loads are measured on left speed brakes only.) A positive bending moment is generated by a positive normal force located outboard of the bending-moment axis except on the speed brakes where a positive force located aft of the hinge line generates a positive bending moment (closing moment). A positive torsion moment comes from a positive normal force ahead of the torsion axis on all surfaces except on the speed brakes where positive torsion comes from a positive normal force located outboard of the torsion axis.

APPARATUS AND MODEL

The tests were conducted in the high Mach number test section of the Langley Unitary Plan wind tunnel. This tunnel is a variable-pressure continuous-return-flow type. The test section is 4 feet square and approximately 7 feet in length. The nozzle leading to the test section is of the asymmetric sliding-block type. Variable Mach numbers may be obtained continuously through a Mach number range from approximately 2.29 to 4.65 without tunnel shutdown.

Details of the test model are shown in figure 1 and its geometric characteristics are given in table I. Photographs of the model are presented in figure 2.

The basic model has a wing with 25.6° sweepback of the quarter chord, an aspect ratio of 2.5, based on the total span and wing area including fuselage intercept, a taper ratio of 0.20, 0° dihedral, and a modified NACA 66005 airfoil section. A drawing of the wing panel is shown in figure 3. Trim in pitch and roll is provided by all-moving horizontal-tail panels differentially actuated. The horizontal-tail panels have 45.0° sweepback of the quarter-chord line, -15.0° dihedral, and a modified NACA 66005 airfoil section. A drawing of the horizontal-tail panel is shown in figure 4. Directional trim is supplied by deflection of all-movable tip panels on both the upper and lower vertical tails. The tip panels are not differentially actuated. Both the upper and lower vertical tails have 10° full-wedge airfoil sections and 23.4° sweepback.

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7

of the quarter-chord line. Drawings of the upper and lower vertical tails are shown in figure 5.

The speed brakes are located on the aft sections of the fixed portions of both the upper and lower vertical tails. The speed brakes are shown on the vertical tails in figure 5. They open 35.0° from the retracted position. When retracted, they are flush with the wedge airfoil section.

The rotatable tip panels of upper and lower vertical tails and each panel of the horizontal tail were independently and remotely actuated during this investigation. Position indication of the control-surface angles for all control surfaces was accomplished by a differential transformer attached to the control-surface linkage.

The model was supported by a sting which was attached to a remotely operated adjustable coupling and a tunnel support system which enabled tests to be performed at variable sideslip angles concurrently with variable angles of attack.

TESTS

Tests were made through an angle-of-attack range from approximately -10° to 20° at angles of sideslip of about -6° , 0° , and 6° . Tests were also made through an angle-of-sideslip range from approximately -6° to 10° at angles of attack of about 0° , 8° , and 16° . Some tests were made with a horizontal-tail deflection of 0° . Some tests were made with the horizontal-tail panels deflected equally in the same direction as a pitch control and one test was made with the tail panels deflected equally but in opposite directions as a roll control. One test was made with both upper and lower vertical-tail panels deflected equally to obtain directional control effectiveness.

The test conditions of Mach number, stagnation and dynamic pressures, and Reynolds number are given in the following table:

Mach number	Stagnation pressure, lb/sq in. abs	Dynamic pressure, lb/sq ft	Reynolds number
2.29	3.92	168	0.51×10^6
2.29	14.42	619	1.87
2.29	25.00	1,074	3.24
2.98	5.58	140	.51
2.98	20.69	520	1.87
2.98	45.03	1,131	4.06
4.65	61.51	385	2.28
4.65	119.38	747	4.43

8

The Reynolds numbers are based on the mean aerodynamic chord of the wing total area including the fuselage intercept. The stagnation temperature was maintained at 150° F for Mach numbers of 2.29 and 2.98 and at 175° F for Mach numbers of 4.65 to prevent adverse condensation effects.

CORRECTIONS AND ACCURACY

The calibration of the flow in the test section has shown that some flow angularity exists. The angles of attack presented in this paper have been corrected for the calibrated values of flow angularity. Pressure gradients in the test section have been found to be sufficiently small in the region occupied by the model so as not to induce any buoyancy effect on the model. The maximum deviation of local Mach number in the portion of the tunnel occupied by the model was ± 0.015 from the average value listed in the preceding section.

The angles of attack and sideslip of the model have been corrected for the deflection of the model support system under load. The control-surface angular positions were continuously monitored and maintained at the desired setting throughout this investigation. The estimated accuracy of the control-surface coefficients and angles based on calibration is:

	Wing		Horizontal tail		Vertical tail		Speed brake	
	Left	Right	Left	Right	Upper	Lower	Upper	Lower
C_N	± 0.030	± 0.030	± 0.030	± 0.030	± 0.010	± 0.005	± 0.015	± 0.015
C_M	$\pm .030$	$\pm .030$	$\pm .010$	$\pm .010$	$\pm .010$	$\pm .010$	$\pm .015$	$\pm .020$
C_B	$\pm .020$	$\pm .010$	$\pm .010$	$\pm .010$	$\pm .010$	$\pm .010$	$\pm .015$	$\pm .010$
δ , deg . .	-----	-----	$\pm .10$	$\pm .10$	$\pm .10$	$\pm .10$	-----	-----

It should be noted that in some instances the load coefficients presented herein show departures from expected measurements greater than those allowed by the above accuracies. In the plotted results, for example, $C_N \neq 0$ at $\alpha = 0^\circ$ on symmetrical test panels. It is believed that such departures are a result of temperature conditions experienced by the strain gages during the test and not adequately compensated for in the strain gages of the model. Such results, although displaced from

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zero, are believed to describe adequately the variation of the coefficients with angle of attack or sideslip.

RESULTS

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Selected results of an investigation of the loading characteristics on the lifting surfaces and the speed brakes of a 0.067-scale model of the X-15 airplane (configuration 3) are presented in the following figures:

Figure

Surface loading characteristics on the left-wing panel	6
Surface loading characteristics on the left horizontal-tail panel	7
Surface loading characteristics on the vertical-tail panels . . .	8
Surface loading characteristics on the speed brakes deflected 35°	9

Results of the entire investigation are presented in the following tables:

Table

Surface loading characteristics at various Mach numbers for the basic model	I to III
Surface loading characteristics at various Mach numbers for different model configurations	IV, V
Surface loading characteristics at various Reynolds numbers	VI to VIII
Surface loading characteristics at various equal deflections of the horizontal-tail panels	IX to XI
Surface loading characteristics at unequal deflections of the horizontal-tail panels	XII
Surface loading characteristics for various configurations throughout an angle-of-sideslip range	XIII to XV

CONCLUDING REMARKS

An investigation was made in the Langley Unitary Plan wind tunnel to determine the normal-force, bending-moment, and torsion-moment characteristics on the lifting surfaces and the speed brakes of a 0.067-scale

model of the North American X-15 airplane (configuration 3). The results are presented in tabular form without analysis.

Langley Research Center,
National Aeronautics and Space Administration,
Langley Field, Va., April 14, 1960.

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6. Hodge, B. Leon, and Burbank, Paige B.: Pressure Distribution of a 0.0667-Scale Model of the X-15 Airplane for an Angle-of-Attack Range of 0° to 28° at Mach Numbers of 2.30, 2.88, and 4.65. NASA TM X-275, 1960.

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11

TABLE I. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
CONFIGURATION, WFHVv; $\beta = 0^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_V = 0^\circ$

(a) $M = 2.29$, $R = 1.87 \times 10^6$, $\delta_S = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
	Wing, left			Wing, right			
-10.26	-0.3612	.0386	-0.1591	-0.3805	.0372	-0.1443	-10.26
-8.15	-0.3638	.0312	-0.1244	-0.3303	.0310	-0.1156	-8.15
-6.07	-0.3355	.0225	-0.0897	-0.2136	.0233	-0.0861	-6.07
-4.02	-0.2188	.0175	-0.0582	-0.0991	.0147	-0.0578	-4.02
-1.91	-0.1135	.0125	-0.0247	-0.0247	.0092	-0.0199	-1.91
.20	-0.0124	.0090	.0064	.0427	.0074	.0140	.20
2.27	.0225	.0072	.0463	.0856	.0046	.0530	2.27
4.37	.1695	-.0002	.0718	.1370	.0016	.0857	4.37
6.44	.2910	-.0097	.1017	.2058	-.0078	.1180	6.44
8.53	.3219	-.0155	.1376	.2453	-.0145	.1531	8.53
10.63	.3500	-.0247	.1707	.3271	-.0241	.1830	10.63
12.68	.3941	-.0342	.2026	.3634	-.0310	.2149	12.68
14.82	.4340	-.0436	.2321	.3983	-.0398	.2452	14.82
16.93	.4795	-.0513	.2656	.4495	-.0509	.2767	16.93
19.03	.5349	-.0573	.2943	.5407	-.0609	.3018	19.03
21.16	.5957	-.0635	.3270	.6603	-.0714	.3262	21.16
	Horizontal tail, left			Horizontal tail, right			
-10.26	-0.2106	.0404	-.0957	-0.1699	.0450	-0.1031	-10.26
-8.15	-0.1595	.0287	-.0681	-0.0898	.0337	-0.0775	-8.15
-6.07	-0.1028	.0236	-.0492	-0.0613	.0262	-0.0550	-6.07
-4.02	-0.0804	.0170	-.0353	-0.0435	.0188	-0.0406	-4.02
-1.91	-0.0309	.0065	-.0148	-0.0162	.0087	-0.0200	-1.91
.20	-.0054	-.0040	.0093	.0471	-.0013	.0012	.20
2.27	.0259	.0159	.0361	.0838	-.0135	.0315	2.27
4.37	.0497	-.0319	.0677	.1677	-.0274	.0599	4.37
6.44	.0794	-.0491	.1024	.2317	-.0437	.0931	6.44
8.53	.1283	-.0662	.1341	.3126	-.0625	.1230	8.53
10.63	.1902	-.0832	.1661	.3722	-.0761	.1556	10.63
12.68	.2349	-.0970	.1970	.4447	-.0929	.1843	12.68
14.82	.2942	-.1112	.2218	.5221	-.1064	.2093	14.82
16.93	.3571	-.1296	.2576	.6124	-.1267	.2442	16.93
19.03	.4154	-.1468	.2879	.6583	-.1429	.2742	19.03
21.16	.4609	-.1571	.3161	.7112	-.1578	.3024	21.16
	Vertical tail, upper			Vertical tail, lower			
-10.26	.0079	.0008	-.0076	-0.0124	-.0020	.0028	-10.26
-8.15	.0109	.0008	-.0080	-0.0149	-.0015	.0046	-8.15
-6.07	.0120	.0003	-.0076	-0.0185	-.0015	.0040	-6.07
-4.02	.0101	.0008	-.0064	-0.0254	-.0015	.0074	-4.02
-1.91	.0131	.0008	-.0071	-0.0178	-.0015	.0091	-1.91
.20	.0095	.0008	-.0048	-0.0341	-.0015	.0100	.20
2.27	.0188	.0008	-.0044	-0.0343	-.0015	.0100	2.27
4.37	.0188	.0008	-.0044	-0.0362	-.0013	.0088	4.37
6.44	.0157	.0016	-.0032	-0.0308	-.0015	.0082	6.44
8.53	.0156	.0021	-.0032	-0.0220	-.0015	.0057	8.53
10.63	.0156	.0025	-.0032	-0.0308	-.0015	.0082	10.63
12.68	.0207	.0021	-.0039	-0.0187	-.0015	.0040	12.68
14.82	.0156	.0025	-.0032	-0.0149	-.0015	.0048	14.82
16.93	.0207	.0016	-.0039	-0.0308	-.0015	.0082	16.93
19.03	.0076	.0025	-.0039	-0.0089	-.0017	.0057	19.03
21.16	.0092	.0034	-.0048	.0033	-.0018	.0017	21.16

TABLE I. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
CONFIGURATION, WFFHVv; $\beta = 0^\circ$, $\delta_{H,L} \approx \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$ - Continued

(b) $M = 2.98$, $R = 1.87 \times 10^6$, $\delta_s = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg	
	Wing, left				Wing, right			
-10.15	-0.2028	.0336	-0.1268	-0.4866	.0470	-0.0977	-10.15	
-8.06	-0.1849	.0273	-0.0985	-0.4946	.0438	-0.0706	-8.06	
-5.97	-0.1318	.0211	-0.0718	-0.4087	.0388	-0.0467	-5.97	
-3.93	-0.0652	.0169	-0.0490	-0.2674	.0283	-0.0267	-3.93	
-1.86	.0046	.0149	-0.0231	-0.2018	.0237	-0.0032	-1.86	
.18	.1141	.0107	-0.0080	-0.1328	.0167	.0171	.18	
2.23	.1502	.0105	.0171	-0.1298	.0155	.0435	2.23	
4.32	.3199	.0058	.0295	-0.0477	.0084	.0646	4.32	
6.36	.3538	.0014	.0554	-0.0201	.0068	.0897	6.36	
8.41	.3899	-0.0010	.0833	.0086	.0052	.1168	8.41	
10.49	.4266	-0.0078	.1109	.0383	.0014	.1439	10.49	
12.55	.4087	-0.0141	.1408	.0148	-0.0014	.1735	12.55	
14.64	.4830	-0.0229	.1667	.1552	-0.0141	.1950	14.64	
16.71	.5066	-0.0275	.1994	.1917	-0.0223	.2265	16.71	
18.78	.5507	-0.0386	.2313	.2272	-0.0283	.2580	18.78	
20.87	.6452	-0.0479	.2572	.3365	-0.0400	.2875	20.87	
	Horizontal tail, left				Horizontal tail, right			
-10.15	-0.2313	.0461	-0.0889	-0.1760	.0396	-0.0960	-10.15	
-8.06	-0.1900	.0401	-0.0724	-0.1249	.0337	-0.0809	-8.06	
-5.97	-0.1349	.0341	-0.0523	-0.0611	.0264	-0.0608	-5.97	
-3.93	-0.0956	.0278	-0.0366	-0.0317	.0207	-0.0427	-3.93	
-1.86	-0.0375	.0186	-0.0194	-0.0048	.0104	-0.0244	-1.86	
.18	.0000	.0094	.0019	.0214	.0000	.0017	.18	
2.23	.0499	-0.0014	.0259	.0617	-0.0104	.0213	2.23	
4.32	.0862	-0.0153	.0535	.1220	-0.0221	.0470	4.32	
6.36	.1351	-0.0277	.0806	.1840	-0.0307	.0737	6.36	
8.41	.1675	-0.0419	.1062	.2599	-0.0409	.0958	8.41	
10.49	.2042	-0.0541	.1264	.2854	-0.0528	.1170	10.49	
12.55	.2393	-0.0633	.1467	.3683	-0.0630	.1355	12.55	
14.64	.2864	-0.0774	.1690	.3994	-0.0781	.1573	14.64	
16.71	.3259	-0.0913	.1944	.4515	-0.0913	.1813	16.71	
18.78	.3601	-0.1053	.2206	.4958	-0.1060	.2075	18.78	
20.87	.4261	-0.1222	.2480	.5597	-0.1223	.2349	20.87	
	Vertical tail, upper				Vertical tail, lower			
-10.15	.0034	.0010	-0.0050	-0.0519	.0052	.0162	-10.15	
-8.06	.0026	.0010	-0.0032	-0.0560	.0052	.0182	-8.06	
-5.97	.0061	.0005	-0.0039	-0.0560	.0052	.0182	-5.97	
-3.93	.0040	.0000	-0.0025	-0.0497	.0050	.0174	-3.93	
-1.86	.0129	.0000	-0.0032	-0.0560	.0052	.0182	-1.86	
.18	.0131	-.0005	-0.0032	-0.0519	.0052	.0162	.18	
2.23	.0059	-.0005	-0.0007	-0.0519	.0052	.0162	2.23	
4.32	.0067	-.0010	-0.0014	-0.0519	.0052	.0162	4.32	
6.36	.0067	-.0010	-0.0014	-0.0339	.0050	.0077	6.36	
8.41	.0101	-.0010	-0.0021	-0.0215	.0050	.0091	8.41	
10.49	.0047	-.0010	.0000	-0.0215	.0050	.0091	10.49	
12.55	.0047	-.0010	.0000	-0.0189	.0050	.0071	12.55	
14.64	.0079	-.0005	-0.0007	-0.0273	.0050	.0082	14.64	
16.71	.0081	-.0010	-0.0007	-0.0168	.0048	.0054	16.71	
18.78	.0045	.0000	.0000	-0.0124	.0048	.0043	18.78	
20.87	.0059	-.0005	.0005	-0.0149	.0048	.0063	20.87	

REF ID: A6492
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13

TABLE I. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
CONFIGURATION, WFHVv; $\beta = 0^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$ - Continued

(c) $M = 4.65$, $R = 2.28 \times 10^6$, $\delta_s = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
	Wing, left			Wing, right			
-9.45	-0.2974	.0082	-0.0542	-0.0491	.0131	-0.0658	-9.45
-7.35	-0.2523	.0054	-0.0387	-0.1051	.0153	-0.0451	-7.35
-5.32	-0.2310	.0026	-0.0219	-0.0373	.0086	-0.0323	-5.32
-3.31	-0.2072	-0.0002	-0.0028	.0491	.0010	-0.0251	-3.31
-1.25	-0.1843	-0.0303	.0124	.1258	-0.0092	-0.0159	-1.25
.77	-0.1031	-0.0058	.0183	.0864	.0137	.0048	.77
2.81	-0.0172	-0.0088	.0251	.1274	.0139	.0187	2.81
4.85	.0895	-0.0088	.0291	.1211	.0068	.0399	4.85
6.89	.0921	-0.0117	.0510	.1414	-0.0062	.0594	6.89
10.95	.1655	-0.0205	.0873	.2088	-0.0119	.0969	10.95
13.00	.2437	-0.0237	.1077	.2347	-0.0145	.1208	13.00
15.05	.2523	-0.0296	.1340	.2397	-0.0189	.1479	15.05
17.09	.2712	-0.0354	.1687	.2722	-0.0211	.1782	17.09
19.13	.3777	-0.0418	.1898	.3520	-0.0275	.2042	19.13
21.22	.4902	-0.0483	.2153	.4838	-0.0392	.2297	21.22
	Horizontal tail, left			Horizontal tail, right			
-9.45	-0.1220	.0230	-0.0594	-0.1615	.0239	-0.0539	-9.45
-7.35	-0.1188	.0187	-0.0481	-0.1267	.0198	-0.0447	-7.35
-5.32	-0.0754	.0126	-0.0372	-0.0810	.0180	-0.0348	-5.32
-3.31	-0.0369	.0062	-0.0233	-0.0575	.0121	-0.0205	-3.31
-1.25	.0016	-0.0001	-0.0094	-0.0341	.0061	-0.0057	-1.25
.77	.0313	-0.0041	.0052	-0.0010	.0001	.0075	.77
2.81	.0707	-0.0061	.0205	.0333	-0.0038	.0221	2.81
4.85	.0717	-0.0104	.0355	.0383	-0.0077	.0395	4.85
6.89	.0900	-0.0188	.0486	.0902	-0.0157	.0481	6.89
10.95	.1102	-0.0381	.0808	.1746	-0.0299	.0757	10.95
13.00	.1453	-0.0528	.1016	.1862	-0.0379	.0972	13.00
15.05	.1553	-0.0636	.1253	.2339	-0.0499	.1188	15.05
17.09	.1928	-0.0804	.1566	.3196	-0.0619	.1444	17.09
19.13	.2353	-0.0933	.1819	.3778	-0.0718	.1684	19.13
21.22	.2826	-0.1037	.2095	.4345	-0.0838	.1959	21.22
	Vertical tail, upper			Vertical tail, lower			
-9.45	.0078	.0013	-0.0009	.0675	.0041	-0.0196	-9.45
-7.35	.0078	.0007	-0.0009	.0535	.0041	-0.0156	-7.35
-5.32	.0089	.0007	-0.0018	.0278	.0042	-0.0142	-5.32
-3.31	.0089	.0007	-0.0018	.0395	.0042	-0.0117	-3.31
-1.25	.0089	.0007	-0.0018	.0481	.0041	-0.0128	-1.25
.77	.0089	.0007	-0.0018	.0483	.0041	-0.0128	.77
2.81	.0090	.0000	-0.0018	.0428	.0041	-0.0100	2.81
4.85	.0135	.0000	-0.0028	.0428	.0041	-0.0100	4.85
6.89	.0135	.0000	-0.0028	.0428	.0041	-0.0100	6.89
8.90	.0135	.0000	-0.0028	.0428	.0041	-0.0100	8.90
10.95	.0135	.0000	-0.0028	.0483	.0041	-0.0128	10.95
13.00	.0107	.0000	-0.0009	.0483	.0041	-0.0128	13.00
15.05	.0152	.0000	-0.0018	.0278	.0042	-0.0142	15.05
17.09	.0107	.0000	-0.0009	.0278	.0042	-0.0142	17.09
19.13	.0106	.0007	-0.0009	.0278	.0042	-0.0142	19.13
21.22	.0107	.0000	-0.0009	.0278	.0042	-0.0142	21.22

TABLE I. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
CONFIGURATION, WFHVv; $\beta = 0^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_V = 0^\circ$ - Continued

(d) $M = 2.29$, $R = 1.87 \times 10^6$, $\delta_S = 35^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
	Wing, left			Wing, right			
-10.27	.2339	.0175	-.1743	-.3658	.0233	-.1511	-10.27
-8.15	.3053	.0117	-.1320	-.3141	.0159	-.1212	-8.15
-6.07	.2491	.0030	-.1001	-.1544	.0060	-.0977	-6.07
-3.97	.1586	.0034	-.0642	-.0493	-.0020	-.0630	-3.97
-1.91	.0521	-.0054	-.0307	.0381	-.0095	-.0275	-1.91
.18	.0662	-.0109	-.0008	.1502	-.0159	.0012	.18
2.25	.0997	-.0109	.0391	.2166	-.0195	.0335	2.25
4.35	.2341	-.0187	.0670	.2862	-.0269	.0670	4.35
6.46	.3674	-.0247	.0945	.3694	-.0362	.0993	6.46
8.51	.3979	-.0322	.1288	.4067	-.0412	.1332	8.51
10.61	.4274	-.0398	.1635	.4138	-.0483	.1683	10.61
12.71	.4519	-.0491	.1934	.4318	-.0549	.1982	12.71
14.79	.4924	-.0585	.2229	.4818	-.0621	.2293	14.79
16.89	.5393	-.0666	.2564	.5522	-.0720	.2628	16.89
18.98	.5507	-.0742	.2895	.6280	-.0800	.2895	18.98
21.09	.6224	-.0842	.3170	.6885	-.0895	.3158	21.09
	Horizontal tail, left			Horizontal tail, right			
-10.27	.2154	.0149	-.0908	-.5273	-.5856	-.0459	-10.27
-8.15	.1661	.0085	-.0695	-.4697	-.5846	-.0250	-8.15
-6.07	.1293	.0020	-.0481	-.4124	-.5839	-.0018	-6.07
-3.97	.0912	-.0031	-.0357	-.3595	-.5831	-.0097	-3.97
-1.91	.0529	-.0108	-.0171	-.3451	-.5850	-.0280	-1.91
.18	.0178	-.0214	.0056	-.3054	-.5839	-.0479	.18
2.25	.0355	-.0319	.0312	-.2479	-.5823	-.0720	2.25
4.35	.0822	-.0477	.0623	-.1689	-.5842	-.1012	4.35
6.46	.1166	-.0659	.0954	-.0764	-.5809	-.1312	6.46
8.51	.1657	-.0806	.1248	-.0082	-.5815	-.1586	8.51
10.61	.2233	-.0963	.1552	-.0832	-.5805	-.1923	10.61
12.71	.2760	-.1133	.1825	-.1519	-.5792	-.2145	12.71
14.79	.3637	-.1352	.2146	-.2557	-.5781	-.2410	14.79
16.89	.4409	-.1693	.2579	-.3722	-.5806	-.2830	16.89
18.98	.5162	-.1998	.2978	-.4754	-.5800	-.3223	18.98
21.09	.5824	-.2287	.3426	-.5710	-.5782	-.3636	21.09
	Vertical tail, upper			Vertical tail, lower			
-10.27	-.0082	-.0031	-.0041	.0040	.0033	-.0023	-10.27
-8.15	-.0084	-.0026	-.0041	.0093	.0028	-.0014	-8.15
-6.07	-.0044	-.0031	-.0041	.0017	.0017	-.0020	-6.07
-3.97	-.0061	-.0026	-.0032	.0012	.0011	.0046	-3.97
-1.91	-.0062	-.0026	-.0032	-.0003	-.0002	.0063	-1.91
.18	-.0051	-.0018	-.0025	-.0023	-.0007	.0080	.18
2.25	-.0051	-.0018	-.0025	.0016	-.0018	.0071	2.25
4.35	-.0070	-.0013	-.0016	.0014	-.0013	.0071	4.35
6.46	-.0053	-.0008	-.0025	.0016	-.0018	.0071	6.46
8.51	-.0072	-.0000	-.0016	.0014	-.0013	.0071	8.51
10.61	-.0072	-.0003	-.0014	.0035	-.0013	.0054	10.61
12.71	-.0072	-.0000	-.0016	.0126	-.0002	-.0006	12.71
14.79	-.0082	-.0000	-.0021	.0105	-.0002	.0011	14.79
16.89	-.0070	-.0008	-.0016	.0105	-.0018	.0037	16.89
18.98	-.0093	-.0000	-.0025	.0108	-.0031	.0037	18.98
21.09	-.0095	-.0008	-.0025	.0156	-.0031	.0037	21.09
	Speed brakes, upper			Speed brakes, lower			
-10.27	1.2648	-.0466	.5955	1.0531	-.1157	.5799	-10.27
-8.15	1.2283	-.0467	.5857	1.0931	-.1155	.5888	-8.15
-6.07	1.1987	-.0700	.5830	1.0698	-.1103	.5669	-6.07
-3.97	1.1771	-.0746	.5808	1.0267	-.1100	.5736	-3.97
-1.91	1.1581	-.0748	.5787	1.1173	-.1195	.5860	-1.91
.18	1.1430	-.0749	.5805	1.1564	-.1284	.5950	.18
2.25	1.1287	-.0704	.5832	1.2074	-.1326	.6069	2.25
4.35	1.0999	-.0659	.5754	1.2572	-.1370	.6192	4.35
6.46	1.1052	-.0797	.5897	1.2914	-.1408	.6290	6.46
8.51	1.0900	-.0757	.5977	1.3372	-.1454	.6451	8.51
10.61	1.0543	-.0615	.5838	1.3835	-.1496	.6604	10.61
12.71	1.0418	-.0520	.5256	1.4388	-.1537	.6822	12.71
14.79	1.0166	-.0286	.4386	1.4939	-.1579	.7003	14.79
16.89	6175	-.0196	.2076	1.5499	-.1632	.7297	16.89
18.98	4220	-.0325	.1923	1.6013	-.1725	.7488	18.98
21.09	2816	-.0092	.1230	1.6550	-.1765	.7757	21.09

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TABLE I. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
 CONFIGURATION, WFFHV_v; $\beta = 0^\circ$, $\delta_{H,L} = \delta_{q,R} = 0^\circ$, $\delta_v = 0^\circ$ - Continued

$$(e) \quad M = 2.98, \quad R = 1.87 \times 10^6, \quad \delta_s = 35^\circ$$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-10.10	-0.3127	0.0183	-0.1140	-0.2477	0.0137	-0.1021	-10.10
-8.06	-0.2467	0.0082	-0.0929	-0.1655	0.0086	-0.0809	-8.06
-6.00	-0.2445	0.0018	-0.0618	-0.0985	0.0040	-0.0558	-6.00
-3.95	-0.1284	0.0020	-0.0427	-0.0110	-0.0016	-0.0355	-3.95
-1.89	-0.0774	-0.0022	-0.0175	0.1089	-0.0117	-0.0175	-1.89
.15	-0.0150	-0.0022	0.0040	0.2126	-0.0173	-0.0004	.15
2.22	0.0507	-0.0044	0.0255	0.2708	-0.0243	0.0167	2.22
4.29	0.1536	-0.0109	0.0447	0.3480	-0.0316	0.0351	4.29
6.37	0.2401	-0.0177	0.0666	0.3618	-0.0350	0.0646	6.37
8.42	0.2740	-0.0201	0.0929	0.3927	-0.0366	0.0937	8.42
10.48	0.3089	-0.0267	0.1188	0.4410	-0.0430	0.1200	10.48
12.55	0.3636	-0.0334	0.1455	0.4539	-0.0464	0.1491	12.55
14.62	0.3973	-0.0334	0.1719	0.4697	-0.0533	0.1790	14.62
16.68	0.4256	-0.0466	0.2065	0.5064	-0.0617	0.2121	16.68
18.75	0.4633	-0.0491	0.2357	0.5588	-0.0680	0.2432	18.75
20.87	0.5251	-0.0581	0.2668	0.5798	-0.0784	0.2771	20.87
Horizontal tail, left				Horizontal tail, right			
-10.10	-0.3004	0.0128	-0.0824	-0.6219	-0.6951	-0.0255	-10.10
-8.06	-0.2828	0.0114	-0.0697	-0.5802	-0.6949	-0.0180	-8.06
-6.00	-0.2265	0.0068	-0.0524	-0.5323	-0.6933	0.0001	-6.00
-3.95	-0.1742	0.0024	-0.0375	-0.4920	-0.6932	0.0171	-3.95
-1.89	-0.1228	-0.0085	-0.0207	-0.4738	-0.6944	0.0341	-1.89
.15	-0.0846	-0.0194	0.0010	-0.4194	-0.6938	0.0545	.15
2.22	-0.0299	-0.0270	0.0242	-0.3796	-0.6933	0.0765	2.22
4.29	0.0122	-0.0411	0.0514	-0.3118	-0.6927	0.1012	4.29
6.37	0.0679	-0.0551	0.0777	-0.2441	-0.6923	0.1274	6.37
8.42	0.1014	-0.0676	0.1000	-0.1762	-0.6927	0.1482	8.42
10.48	0.1427	-0.0769	0.1200	-0.1367	-0.6939	0.1667	10.48
12.55	0.1850	-0.0894	0.1394	-0.0748	-0.6926	0.1826	12.55
14.62	0.2287	-0.1003	0.1564	-0.0275	-0.6931	0.2012	14.62
16.68	0.2764	-0.1174	0.1856	0.0411	-0.6909	0.2286	16.68
18.75	0.3269	-0.1330	0.2129	0.1090	-0.6903	0.2521	18.75
20.87	0.4064	-0.1531	0.2428	0.1976	-0.6892	0.2805	20.87
Vertical tail, upper				Vertical tail, lower			
-10.10	0.0003	-0.0005	-0.0044	0.0451	0.0011	-0.0122	-10.10
-8.06	-0.0017	-0.0005	-0.0032	0.0549	0.0009	-0.0165	-8.06
-6.00	-0.0037	-0.0010	-0.0018	0.0418	0.0017	-0.0105	-6.00
-3.95	-0.0025	-0.0010	-0.0011	0.0402	0.0017	-0.0117	-3.95
-1.89	-0.0025	-0.0010	-0.0011	0.0367	0.0011	-0.0097	-1.89
.15	0.0050	-0.0011	-0.0046	0.0367	0.0011	-0.0097	.15
2.22	-0.0011	-0.0010	-0.0007	0.0367	0.0011	-0.0097	2.22
4.29	-0.0011	-0.0015	-0.0007	0.0371	0.0004	-0.0097	4.29
6.37	-0.0011	-0.0010	-0.0007	0.0367	0.0011	-0.0097	6.37
8.42	-0.0037	-0.0010	-0.0014	0.0411	0.0004	-0.0117	8.42
10.48	-0.0058	-0.0010	-0.0007	0.0514	0.0002	-0.0145	10.48
12.55	-0.0058	-0.0010	-0.0007	0.0509	0.0009	-0.0145	12.55
14.62	-0.0058	-0.0010	-0.0007	0.0577	0.0002	-0.0156	14.62
16.68	-0.0058	-0.0005	-0.0007	0.0621	-0.0006	-0.0176	16.68
18.75	-0.0059	0.0000	-0.0007	0.0687	-0.0013	-0.0185	18.75
20.87	-0.0036	-0.0005	-0.0014	0.0726	-0.0013	-0.0205	20.87
Speed brakes, upper				Speed brakes, lower			
-10.10	1.3230	-0.0885	0.6552	0.9148	-0.1048	0.5206	-10.10
-8.06	1.2785	-0.0775	0.6338	0.9539	-0.1156	0.5298	-8.06
-6.00	1.2225	-0.0720	0.6099	0.9456	-0.1215	0.5318	-6.00
-3.95	1.1469	-0.0720	0.5725	0.9874	-0.1158	0.5563	-3.95
-1.89	1.0864	-0.0665	0.5456	1.00565	-0.1148	0.5687	-1.89
.15	1.0460	-0.0721	0.5325	1.1249	-0.1139	0.5846	.15
2.22	.9970	-0.0612	0.5173	1.1726	-0.1246	0.5958	2.22
4.29	.9400	-0.0503	0.4983	1.2453	-0.1295	0.6202	4.29
6.37	.9315	-0.0560	0.5072	1.3342	-0.1403	0.6614	6.37
8.42	.8837	-0.0396	0.4889	1.4080	-0.1457	0.6958	8.42
10.48	.8544	-0.0232	0.4836	1.4885	-0.1566	0.7351	10.48
12.55	.6943	-0.0062	0.3734	1.5712	-0.1673	0.7743	12.55
14.62	.5083	.0053	0.2506	1.6496	-0.1726	0.8098	14.62
16.68	.3165	-0.0001	0.1516	1.7507	-0.1833	0.8574	16.68
18.75	.2307	.0274	0.1148	1.8435	-0.1940	0.8994	18.75
20.87	.1704	.0329	0.0844	1.9441	-0.2045	0.9430	20.87

TABLE I. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
CONFIGURATION, WFHVv; $\beta = 0^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$ - Continued

(f) $M = 4.65$, $R = 2.28 \times 10^6$, $\delta_s = 35^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg	
	Wing, left				Wing, right			
-9.47	-0.2090	.0143	-.0630	-.1777	.0223	-.0622	-9.47	
-7.33	-.1380	.0143	-.0467	-.2561	.0243	-.0375	-7.33	
-5.34	-.0724	.0115	-.0363	-.1665	.0201	-.0283	-5.34	
-3.33	-.1175	.0115	-.0096	-.1260	.0139	-.0167	-3.33	
-1.27	-.0818	.0028	.0048	-.1087	.0048	-.0040	-1.27	
.74	.0842	.0000	-.0024	-.0692	-.0012	.0128	.74	
2.75	.1175	.0000	.0120	-.0457	-.0042	.0271	2.75	
4.82	.2028	.0028	.0187	-.0289	-.0006	.0447	4.82	
6.85	.2056	-.0002	.0411	-.0098	.0032	.0646	6.85	
8.88	.2519	-.0032	.0566	-.0140	-.0042	.0853	8.88	
10.91	.3016	-.0094	.0738	-.0146	-.0022	.1085	10.91	
12.95	.3558	-.0123	.0957	-.0600	-.0076	.1276	12.95	
15.01	.3891	-.0185	.1208	-.0640	-.0095	.1547	15.01	
17.06	.4304	-.0245	.1523	-.0979	-.0117	.1850	17.06	
19.11	.5148	-.0308	.1762	-.1793	-.0211	.2101	19.11	
21.15	.5808	-.0368	.2062	.2607	-.0243	.2381	21.15	
	Horizontal tail, left				Horizontal tail, right			
-9.47	-.1114	.0254	-.0478	-.1120	.0116	-.0486	-9.47	
-7.33	-.0850	.0210	-.0401	-.0573	.0076	-.0422	-7.33	
-5.34	-.0689	.0233	-.0315	-.0515	.0037	-.0303	-5.34	
-3.33	-.0343	.0190	-.0193	-.0028	-.0003	-.0219	-3.33	
-1.27	.0034	.0087	-.0068	.0313	.0019	-.0099	-1.27	
.74	.0555	.0067	.0046	.0353	-.0040	.0056	.74	
2.75	.0669	.0088	.0215	.0683	.0100	.0208	2.75	
4.82	.0950	.0026	.0351	.1212	.0159	.0332	4.82	
6.85	.1022	.0004	.0434	.1383	.0179	.0414	6.85	
8.88	.1313	-.0081	.0573	.1537	-.0220	.0537	8.88	
10.91	.1521	-.0209	.0759	.2118	-.0341	.0703	10.91	
12.95	.1798	-.0357	.0975	.2611	-.0442	.0903	12.95	
15.01	.2118	-.0485	.1220	.3090	-.0562	.1124	15.01	
17.06	.2569	-.0655	.1528	.3754	-.0683	.1403	17.06	
19.11	.2940	-.0780	.1800	.4120	-.0801	.1671	19.11	
21.15	.3605	-.0907	.2070	.4980	-.0922	.1907	21.15	
	Vertical tail, upper				Vertical tail, lower			
-9.47	-.0145	.0013	-.0007	.0367	-.0004	-.0091	-9.47	
-7.33	-.0117	.0007	-.0023	.0196	-.0004	-.0065	-7.33	
-5.34	-.0126	.0007	-.0002	.0323	-.0004	-.0074	-5.34	
-3.33	-.0171	.0007	.0011	-.0142	-.0002	-.0040	-3.33	
-1.27	-.0098	.0007	-.0016	.0108	-.0002	-.0026	-1.27	
.74	-.0081	.0007	-.0007	.0290	-.0004	-.0048	.74	
2.75	-.0079	.0000	-.0007	.0129	-.0002	-.0011	2.75	
4.82	-.0079	.0000	-.0007	.0094	-.0002	-.0017	4.82	
6.85	-.0081	.0000	-.0007	.0094	-.0002	-.0017	6.85	
8.88	-.0081	.0000	-.0007	.0094	-.0002	-.0017	8.88	
10.91	-.0025	.0000	-.0044	.0094	-.0002	-.0017	10.91	
12.95	-.0025	.0000	-.0044	.0129	-.0002	-.0011	12.95	
15.01	-.0064	.0007	.0000	.0163	-.0004	-.0037	15.01	
17.06	-.0081	.0007	-.0007	.0227	-.0002	-.0051	17.06	
19.11	-.0081	.0007	-.0007	.0227	-.0002	-.0051	19.11	
21.15	-.0062	.0000	.0000	.0282	-.0002	-.0080	21.15	
	Speed brakes, upper				Speed brakes, lower			
-9.47	1.3325	-.1133	.7151	.5434	-.0280	.2722	-9.47	
-7.33	1.2245	-.1282	.6656	.6782	-.0594	.3817	-7.33	
-5.34	1.1274	-.1503	.6062	.6973	-.1149	.4543	-5.34	
-3.33	1.0727	-.1280	.5810	.7603	-.1304	.4969	-3.33	
-1.27	1.0013	-.1055	.5419	.8696	-.0905	.5218	-1.27	
.74	.8923	-.0978	.4745	.9449	-.0971	.5392	.74	
2.75	.7288	-.0753	.3894	1.0715	-.1195	.6016	2.75	
4.82	.6261	-.0331	.3560	1.1819	-.1346	.6606	4.82	
6.85	.5276	-.0682	.3107	1.3374	-.1649	.7451	6.85	
8.88	.3440	-.0452	.1842	1.4591	-.1798	.8067	8.88	
10.91	.1764	-.0372	.0738	1.6071	-.1944	.8837	10.91	
12.95	.1110	-.0599	.0657	1.7903	-.2089	.9767	12.95	
15.01	.0614	-.0525	.0446	1.9624	-.2235	1.0648	15.01	
17.06	.0393	-.0450	.0344	2.1515	-.2457	1.1618	17.06	
19.11	.0335	-.0375	.0304	2.3465	-.2673	1.2662	19.11	
21.15	.0279	-.0300	.0241	2.5252	-.2891	1.3433	21.15	

REF ID: A6472
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TABLE I. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR

CONFIGURATION, WFFHV; $\beta = 0^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$ - Continued(g) $M = 2.29$, $R = 1.87 \times 10^6$, $\delta_s = 35^\circ$ (lower)

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg	
	Wing, left			Wing, right				
-10.29	-.3273	.0350	-.1707	-.3720	.0366	-.1519	-10.29	
-8.18	-.3702	.0296	-.1300	-.3696	.0316	-.1208	-8.18	
-6.05	-.3416	.0207	-.0953	-.2345	.0215	-.0909	-6.05	
-4.01	-.2377	.0157	-.0614	-.1013	.0127	-.0602	-4.01	
-1.90	-.1342	.0107	-.0291	-.0124	.0048	-.0247	-1.90	
.17	-.0172	.0072	.0024	.0562	-.0008	.0088	.17	
2.22	.0034	.0054	.0431	.1109	-.0022	.0443	2.22	
4.36	.1532	-.0020	.0714	.1653	.0054	.0801	4.36	
6.44	.2858	-.0097	.0977	.2469	-.0133	.1101	6.44	
8.50	.3169	-.0173	.1336	.2708	-.0191	.1459	8.50	
10.58	.3323	-.0227	.1703	.3247	-.0261	.1802	10.58	
12.70	.3568	-.0302	.2006	.3297	-.0322	.2125	12.70	
14.77	.4134	-.0416	.2297	.4090	-.0420	.2412	14.77	
16.87	.4589	-.0491	.2632	.4765	-.0513	.2731	16.87	
19.00	.4998	-.0587	.2927	.5223	-.0605	.2995	19.00	
21.09	.5718	-.0668	.3210	.6416	-.0730	.3222	21.09	
	Horizontal tail, left				Horizontal tail, right			
-10.29	-.2066	.0283	-.0929	-.1585	.0256	-.0925	-10.29	
-8.18	-.1597	.0233	-.0727	-.1034	.0219	-.0737	-8.18	
-6.05	-.1048	.0168	-.0483	-.0413	.0108	-.0478	-6.05	
-4.01	-.0725	.0104	-.0358	-.0220	.0060	-.0338	-4.01	
-1.90	-.0289	.0013	-.0180	.0082	-.0002	-.0181	-1.90	
.17	.0008	-.0079	.0053	.0355	-.0104	.0037	.17	
2.22	.0321	-.0198	.0322	.0906	-.0227	.0295	2.22	
4.36	.0898	-.0383	.0648	.1908	-.0390	.0596	4.36	
6.44	.1247	-.0567	.0987	.2667	-.0553	.0910	6.44	
8.50	.1346	-.0739	.1297	.3104	-.0754	.1238	8.50	
10.58	.2415	-.0936	.1651	.4028	-.0941	.1575	10.58	
12.70	.3046	-.1108	.1952	.5016	-.1131	.1859	12.70	
14.77	.3639	-.1304	.2253	.5509	-.1333	.2151	14.77	
16.87	.4511	-.1649	.2707	.6371	-.1686	.2654	16.87	
19.00	.5289	-.1966	.3147	.7764	-.1978	.3033	19.00	
21.09	.6044	-.2243	.3550	.8389	-.2243	.3454	21.09	
	Vertical tail, upper				Vertical tail, lower			
-10.29	.0429	-.0003	-.0213	-.1731	.0028	.1391	-10.29	
-8.18	.0429	-.0003	-.0234	-.1848	.0030	.1377	-8.18	
-6.05	.0459	-.0003	-.0200	-.1799	.0011	.1371	-6.05	
-4.01	.0473	-.0003	-.0193	-.1843	.0006	.1397	-4.01	
-1.90	.0454	-.0003	-.0220	-.1822	-.0006	.1408	-1.90	
.17	.0434	.0002	-.0211	-.1817	-.0017	.1405	.17	
2.22	.0426	.0002	-.0195	-.1839	-.0022	.1419	2.22	
4.36	.0459	.0002	-.0200	-.1839	-.0022	.1419	4.36	
6.44	.0459	.0007	-.0197	-.1813	-.0022	.1405	6.44	
8.50	.0437	.0015	-.0188	-.1813	-.0022	.1405	8.50	
10.58	.0436	.0020	-.0188	-.1775	-.0017	.1402	10.58	
12.70	.0437	.0015	-.0188	-.1721	-.0011	.1411	12.70	
14.77	.0437	.0015	-.0188	-.1791	-.0017	.1391	14.77	
16.87	.0439	.0007	-.0188	-.1780	-.0030	.1425	16.87	
19.00	.0425	.0015	-.0195	-.1687	-.0041	.1456	19.00	
21.09	.0443	.0023	-.0204	-.1670	-.0048	.1468	21.09	
	Speed brakes, upper				Speed brakes, lower			
-10.29	.0639	.0788	.0319	1.1049	-.1250	.6035	-10.29	
-8.18	.0642	.0743	.0321	1.1430	-.1152	.6129	-8.18	
-6.05	.0577	.0697	.0291	1.1258	-.1151	.5964	-6.05	
-4.01	.0573	.0742	.0289	1.1383	-.1195	.6003	-4.01	
-1.90	.0574	.0695	.0305	1.1630	-.1240	.6091	-1.90	
.17	.0576	.0648	.0322	1.2032	-.1282	.6170	.17	
2.22	.0610	.0602	.0361	1.2580	-.1371	.6299	2.22	
4.36	.0679	.0555	.0408	1.3127	-.1460	.6443	4.36	
6.44	.0743	.0601	.0468	1.3555	-.1502	.6573	6.44	
8.50	.0743	.0554	.0499	1.3987	-.1546	.6737	8.50	
10.58	.0710	.0507	.0507	1.4487	-.1494	.6916	10.58	
12.70	.0542	.0507	.0476	1.4958	-.1585	.7089	12.70	
14.77	.0507	.0554	.0383	1.5461	-.1624	.7285	14.77	
16.87	.0575	.0554	.0399	1.6072	-.1720	.7538	16.87	
19.00	.0477	.0508	.0331	1.6575	-.1763	.7734	19.00	
21.09	.0342	.0555	.0238	1.7185	-.1855	.8002	21.09	

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TABLE I. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR

CONFIGURATION, WFFHVV; $\beta = 0^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$ - Continued(h) $M = 2.98$, $R = 1.87 \times 10^6$, $\delta_s = 35^\circ$ (lower)

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left							
-10.12	-0.2718	.0312	-.1236	-.4110	.0362	-.1033	-10.12
-8.07	-0.2074	.0251	-.1021	-.3287	.0312	-.0825	-8.07
-6.02	-0.1859	.0189	-.0706	-.2966	.0275	-.0538	-6.02
-3.99	-0.1195	.0147	-.0478	-.1947	.0223	-.0323	-3.99
-1.88	-0.0844	.0105	-.0203	-.1468	.0157	-.0076	-1.88
.17	.0174	.0086	-.0008	-.0321	.0101	.0120	.17
2.21	.0642	.0064	.0231	-.0189	.0066	.0379	2.21
4.30	.1655	.0020	.0423	.0253	.0024	.0610	4.30
6.36	.2353	-.0026	.0666	.0714	.0004	.0857	6.36
8.41	.2708	-.0048	.0945	.0662	-.0004	.1160	8.41
10.49	.3073	-.0113	.1220	.1149	-.0022	.1439	10.49
12.53	.3610	-.0203	.1471	.1645	-.0109	.1699	12.53
14.62	.3628	-.0247	.1778	.1611	-.0163	.2002	14.62
16.68	.4418	-.0314	.2081	.2351	-.0251	.2317	16.68
18.72	.4818	-.0404	.2373	.3235	-.0344	.2596	18.72
20.84	.5608	-.0497	.2664	.3793	-.0430	.2923	20.84
Horizontal tail, left							
-10.12	-.0204	.0337	-.0878	-.1204	.0275	-.0881	-10.12
-8.07	-.0175	.0323	-.0757	-.1088	.0261	-.0768	-8.07
-6.02	-.0116	.0262	-.0556	-.0289	.0220	-.0592	-6.02
-3.99	-.0086	.0217	-.0394	-.0072	.0145	-.0412	-3.99
-1.88	-.0031	.0123	-.0224	-.0277	.0057	-.0235	-1.88
.17	.0000	.0016	.0000	.0549	-.0030	-.0013	.17
2.21	.0551	-.0092	.0232	.1026	-.0132	.0211	2.21
4.30	.0914	-.0231	.0508	.1343	-.0252	.0495	4.30
6.36	.1249	-.0389	.0801	.2305	-.0368	.0727	6.36
8.41	.1840	-.0527	.1046	.2920	-.0472	.0967	8.41
10.49	.2150	-.0653	.1260	.3317	-.0589	.1171	10.49
12.53	.2483	-.0746	.1454	.3717	-.0710	.1379	12.53
14.62	.2972	-.0886	.1686	.4317	-.0843	.1582	14.62
16.68	.3455	-.1041	.1946	.4824	-.1007	.1839	16.68
18.72	.3802	-.1181	.2211	.5347	-.1155	.2083	18.72
20.84	.4553	-.1370	.2495	.6201	-.1336	.2358	20.84
Vertical tail, upper							
-10.12	.0492	.0028	-.0234	-.2172	-.0007	.1718	-10.12
-8.07	.0509	.0028	-.0225	-.2200	-.0013	.1735	-8.07
-6.02	.0555	.0016	-.0227	-.2249	-.0013	.1741	-6.02
-3.99	.0510	.0011	-.0248	-.2278	-.0013	.1758	-3.99
-1.88	.0526	.0013	-.0241	-.2308	-.0013	.1775	-1.88
.17	.0502	0.0000	-.0232	-.2233	-.0013	.1755	.17
2.21	.0541	.0008	-.0234	-.2280	-.0013	.1761	2.21
4.30	.0518	.0002	-.0223	-.2250	-.0013	.1741	4.30
6.36	.0557	.0002	-.0227	-.2221	-.0013	.1727	6.36
8.41	.0558	-.0003	-.0227	-.2221	-.0013	.1727	8.41
10.49	.0510	-.0002	-.0204	-.2172	-.0015	.1721	10.49
12.53	.0510	.0003	-.0204	-.2170	-.0020	.1721	12.53
14.62	.0510	.0003	-.0204	-.2170	-.0020	.1721	14.62
16.68	.0524	.0003	-.0197	-.2119	-.0028	.1715	16.68
18.72	.0507	.0018	-.0204	-.2121	-.0028	.1718	18.72
20.84	.0509	.0018	-.0206	-.2132	-.0035	.1749	20.84
Speed brakes, upper							
-10.12	.0557	.0000	.0274	.9533	-.0924	.5262	-10.12
-8.07	.0560	-.0055	.0276	.9841	-.0978	.5337	-8.07
-6.02	.0481	-.0055	.0239	.9888	-.1036	.5406	-6.02
-3.99	.0444	-.0110	.0213	1.0219	-.0978	.5592	-3.99
-1.88	.0403	-.0110	.0204	1.0907	-.1026	.5753	-1.88
.17	.0364	-.0110	.0177	1.1692	-.1073	.5940	.17
2.21	.0364	-.0110	.0177	1.2122	-.1067	.6022	2.21
4.30	.0287	-.0164	.0142	1.2921	-.1116	.6318	4.30
6.36	.0287	-.0164	.0142	1.3687	-.1224	.6665	6.36
8.41	.0207	-.0164	.0105	1.4449	-.1332	.7009	8.41
10.49	.0166	-.0165	.0096	1.5247	-.1440	.7380	10.49
12.53	.0126	-.0165	.0086	1.6051	-.1492	.7772	12.53
14.62	.0127	-.0220	.0105	1.6890	-.1600	.8170	14.62
16.68	.0166	-.0220	.0150	1.7777	-.1650	.8562	16.68
18.72	.0168	-.0275	.0152	1.8684	-.1759	.8964	18.72
20.84	.0129	-.0275	.0125	1.9756	-.1866	.9440	20.84

REF ID: A6492
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19

TABLE I. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR

CONFIGURATION, WFHVv; $\beta = 0^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$ - Concluded(i) $M = 4.65$, $R = 2.28 \times 10^6$, $\delta_s = 35^\circ$ (lower)

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg	
	Wing, left				Wing, right			
-9.47	-0.3053	.0197	-0.0578	-0.0503	.0163	-0.0658	-9.47	
-7.33	-0.2591	.0199	-0.0403	-0.1536	.0197	-0.0403	-7.33	
-5.30	-0.2140	.0171	-0.0247	-0.0862	.0159	-0.0275	-5.30	
-3.27	-0.1903	.0143	-0.0060	-0.0215	.0090	-0.0171	-3.27	
-1.29	-0.1893	.0115	-0.0132	.0754	-0.0018	-0.0084	-1.29	
.76	-0.0449	.0088	.0116	.0860	-0.0076	.0072	.76	
2.80	-0.0209	.0058	.0255	.0810	-0.0097	.0255	2.80	
4.84	.0171	.0058	.0259	.1001	-0.0092	.0431	4.84	
6.85	.0199	.0028	.0482	.1207	-0.0088	.0626	6.85	
8.90	.0156	-0.0002	.0634	.1396	-0.0052	.0825	8.90	
10.92	.01825	-0.0030	.0845	.1855	-0.0084	.1005	10.92	
12.95	.02118	-0.0060	.1073	.1625	-0.0094	.1264	12.95	
15.00	.02684	-0.0092	.1312	.2142	-0.0153	.1491	15.00	
17.07	.03309	-0.0151	.1591	.2732	-0.0243	.1778	17.07	
19.13	.03929	-0.0273	.1846	.3257	-0.0271	.2030	19.13	
21.17	.04820	-0.0277	.2137	.3871	-0.0360	.2341	21.17	
	Horizontal tail, left				Horizontal tail, right			
-9.47	-0.1695	.0207	-0.0488	-0.1210	.0115	-0.0510	-9.47	
-7.33	-0.1591	.0164	-0.0386	-0.1060	.0075	-0.0386	-7.33	
-5.30	-0.1345	.0164	-0.0307	-0.0695	.0056	-0.0316	-5.30	
-3.27	-0.0998	.0124	-0.0188	-0.0361	-0.0003	-0.0199	-3.27	
-1.29	-0.0603	.0040	-0.0050	-0.0004	-0.0022	-0.0074	-1.29	
.76	-0.0234	.0021	.0087	.0439	-0.0062	.0045	.76	
2.80	.0265	.0001	.0244	.0671	-0.0121	.0209	2.80	
4.84	.0351	-0.0042	.0385	.0808	-0.0180	.0369	4.84	
6.85	.0535	-0.0125	.0516	.1154	-0.0220	.0479	6.85	
8.90	.0641	-0.0211	.0655	.1485	-0.0281	.0612	8.90	
10.92	.0918	-0.0317	.0829	.1804	-0.0360	.0764	10.92	
12.95	.1000	-0.0445	.1052	.2210	-0.0441	.0955	12.95	
15.00	.1295	-0.0573	.1286	.2980	-0.0560	.1153	15.00	
17.07	.1744	-0.0741	.1587	.3639	-0.0681	.1431	17.07	
19.13	.2162	-0.0847	.1836	.3920	-0.0801	.1695	19.13	
21.17	.2645	-0.0974	.2119	.4683	-0.0922	.1946	21.17	
	Vertical tail, upper				Vertical tail, lower			
-9.47	-0.0092	.0015	.0018	.0615	.0006	-0.0168	-9.47	
-7.33	-0.0082	.0015	.0009	.0745	.0013	-0.0225	-7.33	
-5.30	-0.0082	.0015	.0009	.0509	.0006	-0.0142	-5.30	
-3.27	-0.0082	.0015	.0009	.0607	.0013	-0.0185	-3.27	
-1.29	-0.0081	.0007	.0009	.0612	.0004	-0.0185	-1.29	
.76	-0.0002	.0007	.0000	.0603	.0013	-0.0185	.76	
2.80	-0.0002	.0007	.0000	.0609	.0004	-0.0185	2.80	
4.84	.0000	.0000	.0000	.0551	.0013	-0.0156	4.84	
6.85	.0000	.0000	.0000	.0588	.0004	-0.0142	6.85	
8.90	.0000	.0000	.0000	.0497	.0013	-0.0131	8.90	
10.92	.0000	.0000	.0000	.0588	.0004	-0.0142	10.92	
12.95	.0079	.0000	-0.0009	.0554	.0004	-0.0159	12.95	
15.00	.0017	.0000	.0009	.0327	.0006	-0.0174	15.00	
17.07	.0078	.0007	-0.0009	.0509	.0006	-0.0142	17.07	
19.13	.0078	.0007	-0.0009	.0442	.0007	-0.0139	19.13	
21.17	.0081	.0007	.0007	.0512	-0.0004	-0.0142	21.17	
	Speed brakes, upper				Speed brakes, lower			
-9.47	-0.0149	.1934	.0030	.5888	-0.0273	.2799	-9.47	
-7.33	-0.0203	.1938	-0.0007	.6627	-0.0587	.3504	-7.33	
-5.30	-0.0255	.1863	-0.0018	.8386	-0.1127	.4748	-5.30	
-3.27	-0.0316	.2015	-0.0059	.8957	-0.1287	.5263	-3.27	
-1.29	-0.0364	.1866	-0.0068	1.0172	-0.0964	.5567	-1.29	
.76	-0.0363	.1859	-0.0067	1.1062	-0.1025	.5788	.76	
2.80	-0.0471	.1860	-0.0117	1.2160	-0.1173	.6298	2.80	
4.84	-0.0527	.1860	-0.0130	1.3650	-0.1474	.7100	4.84	
6.85	-0.0578	.1788	-0.0165	1.5099	-0.1624	.7871	6.85	
8.90	-0.0523	.1785	-0.0128	1.6334	-0.1847	.8530	8.90	
10.92	-0.0577	.1785	-0.0165	1.7768	-0.1993	.9243	10.92	
12.95	-0.0580	.1859	-0.0167	1.9134	-0.2137	.9885	12.95	
15.00	-0.0523	.1785	-0.0128	2.1025	-0.2205	1.0830	15.00	
17.07	-0.0523	.1784	-0.0128	2.3124	-0.2425	1.1944	17.07	
19.13	-0.0571	.1626	-0.0137	2.4907	-0.2648	1.2866	19.13	
21.17	-0.0466	.1711	-0.0089	2.6821	-0.2945	1.3746	21.17	

TABLE II. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
CONFIGURATION, WFHVv; $\beta = -6.1^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$

(a) $M = 2.29$, $R = 1.87 \times 10^6$, $\delta_s = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
	Wing, left			Wing, right			
-10.30	-0.3907	0.0418	-0.1575	-0.3478	0.0384	-0.1443	-10.30
-8.15	-0.3761	0.0366	-0.1208	-0.3139	0.0294	-0.1164	-8.15
-6.04	-0.3037	0.0281	-0.0873	-0.2120	0.0233	-0.0845	-6.04
-4.00	-0.2032	0.0211	-0.0574	-0.1410	0.0157	-0.0510	-4.00
-1.88	-0.1117	0.0179	-0.0219	-0.0377	0.0076	-0.0179	-1.88
.20	-0.0588	0.0143	0.0132	0.0385	0.0074	0.0096	.20
2.25	.0183	0.0109	0.0435	0.0092	0.0101	0.0578	2.25
4.32	.0171	0.0034	0.0588	0.1067	0.0222	0.0873	4.32
6.43	.2401	-0.0042	0.1017	0.1805	-0.0090	0.1232	6.43
8.54	.3716	-0.0101	0.1268	0.2621	-0.0167	0.1535	8.54
10.60	.4495	-0.0179	0.1599	0.2836	-0.0271	0.1850	10.60
12.72	.4860	-0.0255	0.1998	0.3598	-0.0368	0.2097	12.72
14.81	.5339	-0.0350	0.2345	0.4160	-0.0466	0.2309	14.81
16.91	.5862	-0.0430	0.2731	0.4639	-0.0575	0.2580	16.91
19.00	.6332	-0.0545	0.3066	0.5201	-0.0633	0.2811	19.00
21.15	.7122	-0.0647	0.3389	0.5762	-0.0708	0.3026	21.15
	Horizontal tail, left			Horizontal tail, right			
-10.30	-0.2800	0.0652	-0.1365	-0.1154	0.0311	-0.0762	-10.30
-8.15	-0.2245	0.0563	-0.1156	-0.0776	0.0197	-0.0502	-8.15
-6.04	-0.1840	0.0511	-0.0957	-0.0463	0.0150	-0.0357	-6.04
-4.00	-0.1467	0.0419	-0.0779	-0.0118	0.0061	-0.0184	-4.00
-1.88	-0.1024	0.0263	-0.0515	0.0210	-0.0039	0.0049	-1.88
.20	-0.0477	0.0104	-0.0198	0.0609	-0.0124	0.0268	.20
2.25	.0014	-0.0067	0.0154	0.1357	-0.0223	0.0509	2.25
4.32	.0465	-0.0251	0.0513	0.1960	-0.0362	0.0770	4.32
6.43	.1068	-0.0449	0.0884	0.2621	-0.0499	0.1054	6.43
8.54	.1639	-0.0646	0.1243	0.3092	-0.0648	0.1355	8.54
10.60	.2351	-0.0817	0.1548	0.3944	-0.0773	0.1612	10.60
12.72	.3287	-0.1040	0.1899	0.4405	-0.0861	0.1826	12.72
14.81	.3912	-0.1290	0.2273	0.4826	-0.0922	0.1990	14.81
16.91	.4701	-0.1528	0.2705	0.5463	-0.1008	0.2197	16.91
19.00	.5433	-0.1725	0.3082	0.5906	-0.1121	0.2413	19.00
21.15	.6056	-0.1846	0.3453	0.6569	-0.1260	0.2642	21.15
	Vertical tail, upper			Vertical tail, lower			
-10.30	.3153	-0.0417	0.1395	0.1831	-0.0279	0.0688	-10.30
-8.15	.2884	-0.0389	0.1280	0.1778	-0.0301	0.0703	-8.15
-6.04	.2736	-0.0370	0.1188	0.1911	-0.0308	0.0705	-6.04
-4.00	.2562	-0.0348	0.1085	0.1955	-0.0310	0.0740	-4.00
-1.88	.2363	-0.0345	0.1005	0.2123	-0.0295	0.0774	-1.88
.20	.2254	-0.0347	0.0931	0.2243	-0.0286	0.0839	.20
2.25	.2117	-0.0348	0.0883	0.2415	-0.0279	0.0910	2.25
4.32	.2014	-0.0348	0.0833	0.2618	-0.0271	0.1007	4.32
6.43	.1940	-0.0363	0.0794	0.2771	-0.0275	0.1092	6.43
8.54	.1901	-0.0410	0.0789	0.2969	-0.0279	0.1212	8.54
10.60	.1930	-0.0466	0.0780	0.3139	-0.0282	0.1311	10.60
12.72	.1951	-0.0522	0.0787	0.3403	-0.0279	0.1391	12.72
14.81	.1999	-0.0594	0.0842	0.3401	-0.0280	0.1454	14.81
16.91	.2019	-0.0587	0.0929	0.3567	-0.0273	0.1522	16.91
19.00	.1507	-0.0401	0.0805	0.3663	-0.0251	0.1576	19.00
21.15	.1324	-0.0322	0.0686	0.3754	-0.0236	0.1619	21.15

L-350

REF ID: A6512

21

TABLE II. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
CONFIGURATION, WFHVv; $\beta = -6.1^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$ - Continued

(b) $M = 2.98$, $R = 1.87 \times 10^6$, $\delta_s = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-10.15	-0.2445	0.0376	-0.1296	-0.4144	0.0408	-0.1049	-10.15
-8.06	-0.1590	0.0273	-0.1077	-0.3313	0.0310	-0.0853	-8.06
-5.97	-0.1221	0.0233	-0.0786	-0.3191	0.0277	-0.0574	-5.97
-1.86	0.0136	0.0193	-0.0299	-0.0933	0.0169	-0.0104	-1.86
.18	0.1264	0.0149	-0.0136	-0.0931	0.0113	0.0136	.18
2.24	0.1304	0.0105	0.0163	-0.1059	0.0129	0.0471	2.24
4.29	0.2832	0.0082	0.0315	-0.0620	0.0088	0.0686	4.29
6.38	0.3363	0.0014	0.0566	-0.0193	0.0044	0.0897	6.38
8.42	0.3745	-0.0032	0.0857	-0.0642	0.0020	0.1172	8.42
10.48	0.4679	-0.0099	0.1120	0.0199	-0.0052	0.1416	10.48
12.56	0.4918	-0.0143	0.1447	0.0319	-0.0131	0.1675	12.56
14.64	0.5080	-0.0275	0.1850	0.1131	-0.0181	0.1886	14.64
16.72	0.5574	-0.0344	0.2217	0.1611	-0.0269	0.2133	16.72
18.82	0.6169	-0.0414	0.2512	0.2232	-0.0314	0.2353	18.82
20.89	0.7000	-0.0485	0.2831	0.2712	-0.0402	0.2600	20.89
Horizontal tail, left				Horizontal tail, right			
-10.15	-0.2978	0.0598	-0.1093	-0.1565	0.0292	-0.0752	-10.15
-8.06	-0.2505	0.0490	-0.0983	-0.1012	0.0203	-0.0499	-8.06
-5.97	-0.2148	0.0461	-0.0842	-0.0377	0.0132	-0.0302	-5.97
-1.86	-0.1204	0.0229	-0.0355	0.0046	-0.0030	0.0008	-1.86
.18	-0.0351	0.0108	-0.0122	0.0489	-0.0087	0.0181	.18
2.24	0.0048	0.0016	0.0144	0.0978	-0.0177	0.0374	2.24
4.29	0.0561	-0.0123	0.0382	0.1573	-0.0309	0.0616	4.29
6.38	0.1018	-0.0263	0.0633	0.2186	-0.0413	0.0872	6.38
8.42	0.1623	-0.0387	0.0888	0.2948	-0.0515	0.1081	8.42
10.48	0.2140	-0.0525	0.1168	0.3074	-0.0618	0.1272	10.48
12.56	0.2469	-0.0681	0.1424	0.3713	-0.0692	0.1429	12.56
14.64	0.2529	-0.0839	0.1686	0.3996	-0.0764	0.1654	14.64
16.72	0.3365	-0.1010	0.1940	0.4750	-0.0883	0.1880	16.72
18.82	0.4062	-0.1178	0.2196	0.5353	-0.1000	0.2105	18.82
20.89	0.4800	-0.1336	0.2481	0.5884	-0.1135	0.2360	20.89
Vertical tail, upper				Vertical tail, lower			
-10.15	0.2994	-0.0649	0.1289	0.1387	-0.0249	0.0521	-10.15
-8.06	0.2806	-0.0598	0.1223	0.1430	-0.0243	0.0558	-8.06
-5.97	0.2634	-0.0554	0.1142	0.1495	-0.0238	0.0609	-5.97
-1.86	0.2242	-0.0442	0.1002	0.1855	-0.0266	0.0759	-1.86
.18	0.2158	-0.0397	0.0963	0.2035	-0.0269	0.0893	.18
2.24	0.2007	-0.0353	0.0895	0.2226	-0.0293	0.0993	2.24
4.29	0.1867	-0.0322	0.0849	0.2439	-0.0363	0.1092	4.29
6.38	0.1664	-0.0304	0.0775	0.2632	-0.0421	0.1178	6.38
8.42	0.1528	-0.0299	0.0732	0.2759	-0.0437	0.1269	8.42
10.48	0.1461	-0.0316	0.0674	0.3048	-0.0489	0.1317	10.48
12.56	0.1492	-0.0347	0.0619	0.3268	-0.0520	0.1402	12.56
14.64	0.1506	-0.0376	0.0603	0.3527	-0.0625	0.1482	14.64
16.72	0.1280	-0.0340	0.0608	0.3756	-0.0629	0.1582	16.72
18.82	0.1041	-0.0335	0.0537	0.3945	-0.0657	0.1681	18.82
20.89	0.1277	-0.0352	0.0539	0.4151	-0.0681	0.1755	20.89

TABLE II. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR

CONFIGURATION, WFHVv; $\beta = -6.1^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$ - Continued(c) $M = 4.65$, $R = 2.28 \times 10^6$, $\delta_s = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-9.46	-0.2880	0.0054	-0.0678	0.1492	0.0000	-0.0754	-9.46
-7.32	-0.2379	0.0026	-0.0482	0.0197	0.0066	-0.0510	-7.32
-5.30	-0.2166	-0.0002	-0.0315	0.0355	0.0006	-0.0383	-5.30
-3.31	-0.1895	-0.0060	-0.0104	0.0973	0.0000	-0.0275	-3.31
-1.25	-0.1623	-0.0060	0.0068	0.1258	-0.0028	-0.0136	-1.25
.76	-0.1023	-0.0088	0.0183	0.1590	-0.0119	0.0016	.76
2.79	-0.0600	-0.0058	0.0319	0.1516	-0.0141	0.0175	2.79
4.83	0.0253	-0.0030	0.0411	0.1699	-0.0141	0.0351	4.83
6.86	0.1631	-0.0060	0.0475	0.1649	-0.0161	0.0534	6.86
8.90	0.1899	-0.0090	0.0682	0.1598	-0.0183	0.0722	8.90
10.97	0.2194	-0.0119	0.0913	0.2044	-0.0247	0.0877	10.97
12.98	0.2952	-0.0151	0.1097	0.2272	-0.0302	0.1073	12.98
15.05	0.3737	-0.0183	0.1300	0.2764	-0.0364	0.1276	15.05
17.09	0.4639	-0.0247	0.1587	0.3103	-0.0420	0.1575	17.09
19.15	0.5273	-0.0308	0.1866	0.3394	-0.0412	0.1858	19.15
21.22	0.5712	-0.0366	0.2197	0.3508	-0.0452	0.2197	21.22
Horizontal tail, left				Horizontal tail, right			
-9.46	-0.1693	0.0271	-0.0677	-0.1449	0.0220	-0.0421	-9.46
-7.32	-0.1347	0.0229	-0.0554	-0.1114	0.0160	-0.0309	-7.32
-5.30	-0.1114	0.0209	-0.0440	-0.0577	0.0121	-0.0185	-5.30
-3.31	-0.0748	0.0124	-0.0315	-0.0313	0.0101	-0.0099	-3.31
-1.25	-0.0313	0.0063	-0.0203	-0.0064	0.0042	0.0009	-1.25
.76	.0014	0.0063	-0.0082	0.0050	-0.0039	0.0174	.76
2.79	0.0234	0.0023	0.0076	0.0369	-0.0118	0.0322	2.79
4.83	0.0663	-0.0061	0.0286	0.0607	-0.0178	0.0435	4.83
6.86	0.0844	-0.0188	0.0455	0.0954	-0.0219	0.0546	6.86
8.90	0.0882	-0.0296	0.0611	0.1285	-0.0279	0.0678	8.90
10.97	0.1305	-0.0380	0.0763	0.1601	-0.0361	0.0826	10.97
12.98	0.1581	-0.0486	0.0937	0.1914	-0.0440	0.1018	12.98
15.05	0.1952	-0.0568	0.1115	0.2297	-0.0561	0.1231	15.05
17.09	0.2397	-0.0675	0.1378	0.3140	-0.0700	0.1484	17.09
19.15	0.2603	-0.0780	0.1619	0.3693	-0.0842	0.1764	19.15
21.22	0.3084	-0.0907	0.1898	0.4615	-0.1002	0.2080	21.22
Vertical tail, upper				Vertical tail, lower			
-9.46	0.2032	-0.0492	0.0844	0.1916	-0.0194	0.0159	-9.46
-7.32	0.1921	-0.0464	0.0791	0.1864	-0.0194	0.0225	-7.32
-5.30	0.1829	-0.0437	0.0750	0.1932	-0.0196	0.0276	-5.30
-3.31	0.1775	-0.0424	0.0693	0.1978	-0.0197	0.0310	-3.31
-1.25	0.1727	-0.0402	0.0672	0.2163	-0.0208	0.0290	-1.25
.76	0.1646	-0.0376	0.0665	0.2424	-0.0238	0.0319	.76
2.79	0.1641	-0.0348	0.0665	0.2284	-0.0275	0.0353	2.79
4.83	0.1573	-0.0321	0.0635	0.2399	-0.0303	0.0378	4.83
6.86	0.1398	-0.0288	0.0553	0.2514	-0.0323	0.0407	6.86
8.90	0.1291	-0.0260	0.0505	0.2593	-0.0350	0.0455	8.90
10.97	0.1171	-0.0206	0.0422	0.2742	-0.0382	0.0612	10.97
12.98	0.0977	-0.0152	0.0392	0.2934	-0.0413	0.0694	12.98
15.05	0.0731	-0.0124	0.0369	0.3231	-0.0454	0.0748	15.05
17.09	0.0719	-0.0119	0.0333	0.3555	-0.0505	0.0819	17.09
19.15	0.0700	-0.0121	0.0261	0.3719	-0.0563	0.0924	19.15
21.22	0.0666	-0.0123	0.0216	0.4160	-0.0655	0.1124	21.22

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23

TABLE II. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
 CONFIGURATION, WFHV_v; $\beta = -6.1^0$, $\delta_{H,L} = \delta_{H,R} = 0^0$, $\delta_v = 0^0$ - Continued

$$(d) \quad M = 2.29, \quad R = 1.87 \times 10^6, \quad \delta_S = 35^\circ$$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-10.26	-0.3436	0.0189	-0.1623	-0.3327	0.0207	-0.1515	-10.26
-8.15	-0.2645	0.0137	-0.1356	-0.2828	0.0153	-0.1228	-8.15
-6.07	-0.2431	0.0068	-0.0937	-0.1972	0.0074	-0.0917	-6.07
-3.99	-0.1715	-0.0002	-0.0622	-0.0963	-0.0008	-0.0610	-3.99
-1.88	-0.0534	0.0000	-0.0307	-0.0086	-0.0088	-0.0267	-1.88
.18	0.0359	0.0000	0.0036	0.1434	0.0161	-0.0056	.18
2.25	0.0836	-0.0127	0.0387	0.1717	0.0185	0.0355	2.25
4.34	0.2421	-0.0169	0.0610	0.2276	0.0255	0.0710	4.34
6.45	0.3161	-0.0191	0.0933	0.2990	0.0348	0.1061	6.45
8.51	0.4366	-0.0306	0.1204	0.3075	0.0418	0.1412	8.51
10.62	0.5144	-0.0368	0.1539	0.3460	0.0507	0.1746	10.62
12.70	0.5646	-0.0466	0.1902	0.4061	0.0585	0.2002	12.70
14.78	0.5957	-0.0523	0.2261	0.4647	0.0663	0.2245	14.78
16.89	0.6665	-0.0680	0.2636	0.5122	0.0754	0.2520	16.89
18.97	0.6831	-0.0776	0.2995	0.5383	0.0794	0.2755	18.97
21.09	0.7617	-0.0879	0.3314	0.5965	0.0869	0.2995	21.09
Horizontal tail, left				Horizontal tail, right			
-10.26	-0.2184	0.0270	-0.1126	-0.5056	-0.5863	-0.0333	-10.26
-8.15	-0.1727	0.0111	-0.0883	-0.4429	-0.5857	-0.0078	-8.15
-6.07	-0.1371	0.0086	-0.0735	-0.4034	-0.5861	-0.0091	-6.07
-3.99	-0.1098	0.0088	-0.0657	-0.3810	-0.5849	-0.0263	-3.99
-1.88	-0.0673	-0.0030	-0.0428	-0.3227	-0.5831	-0.0459	-1.88
.18	-0.0136	-0.0173	-0.0141	-0.2902	-0.5834	-0.0703	.18
2.25	0.0244	-0.0292	0.0165	-0.3331	-0.5823	-0.1036	2.25
4.34	0.0812	-0.0424	0.0465	-0.1465	-0.5821	-0.1203	4.34
6.45	0.1429	-0.0620	0.0815	-0.0727	-0.5830	-0.1480	6.45
8.51	0.1986	-0.0833	0.1160	-0.0032	-0.5816	-0.1729	8.51
10.62	0.2800	-0.1043	0.1481	-0.0717	-0.5809	-0.1970	10.62
12.70	0.3693	-0.1429	0.1937	-0.1295	-0.5811	-0.2156	12.70
14.78	0.4659	-0.1823	0.2332	-0.1934	-0.5804	-0.2313	14.78
16.89	0.5718	-0.2289	0.2954	-0.2685	-0.5799	-0.2542	16.89
18.97	0.6802	-0.2597	0.3462	-0.3435	-0.5805	-0.2834	18.97
21.09	0.7746	-0.2848	0.3944	-0.4473	-0.5794	-0.3176	21.09
Vertical tail, upper				Vertical tail, lower			
-10.26	0.3054	-0.0512	0.1450	0.2021	-0.0454	0.0794	-10.26
-8.15	0.2864	-0.0476	0.1337	0.2018	-0.0391	0.0785	-8.15
-6.07	0.2677	-0.0443	0.1227	0.2060	-0.0341	0.0771	-6.07
-3.99	0.2467	-0.0432	0.1124	0.2156	-0.0308	0.0762	-3.99
-1.88	0.2246	-0.0419	0.1035	0.2271	-0.0275	0.0799	-1.88
.18	0.2075	-0.0417	0.0970	0.2396	-0.0267	0.0868	.18
2.25	0.2004	-0.0425	0.0915	0.2504	-0.0258	0.0956	2.25
4.34	0.1910	-0.0443	0.0885	0.2633	-0.0256	0.1055	4.34
6.45	0.1831	-0.0435	0.0849	0.3006	-0.0256	0.1152	6.45
8.51	0.1790	-0.0424	0.0828	0.3088	-0.0266	0.1243	8.51
10.62	0.1845	-0.0525	0.0846	0.3293	-0.0288	0.1363	10.62
12.70	0.1899	-0.0561	0.0851	0.3460	-0.0293	0.1428	12.70
14.78	0.1870	-0.0612	0.0890	0.3593	-0.0290	0.1499	14.78
16.89	0.1865	-0.0636	0.0943	0.3758	-0.0277	0.1570	16.89
18.97	0.1220	-0.0309	0.0732	0.3843	-0.0243	0.1616	18.97
21.09	0.0877	-0.0182	0.0539	0.3885	-0.0218	0.1661	21.09
Speed brakes, upper				Speed brakes, lower			
-10.26	1.4670	-0.0607	0.6955	1.1630	-0.0646	0.5359	-10.26
-8.15	1.4391	-0.0515	0.6888	1.3717	-0.1175	0.6805	-8.15
-6.07	1.4296	-0.0517	0.6960	1.4623	-0.1756	0.7528	-6.07
-3.99	1.4341	-0.0611	0.7104	1.4419	-0.1707	0.7458	-3.99
-1.88	1.4303	-0.0704	0.7210	1.4563	-0.1605	0.7465	-1.88
.18	1.4285	-0.0706	0.7302	1.4626	-0.1556	0.7392	.18
2.25	1.4306	-0.0646	0.7357	1.4584	-0.1552	0.7285	2.25
4.34	1.4342	-0.0201	0.7723	1.4600	-0.1550	0.7181	4.34
6.45	1.4103	-0.0524	0.7532	1.4564	-0.1501	0.7141	6.45
8.51	1.3414	-0.0432	0.7217	1.4870	-0.1547	0.7232	8.51
10.62	1.1644	-0.0001	0.5404	1.5543	-0.1590	0.7529	10.62
12.70	0.3055	0.0006	0.2350	1.5847	-0.1588	0.7619	12.70
14.78	0.5630	0.0143	0.2382	1.6269	-0.1584	0.7794	14.78
16.89	0.3492	-0.0220	0.1250	1.6807	-0.1620	0.8020	16.89
18.97	0.1425	-0.0094	0.0747	1.7201	-0.1676	0.8192	18.97
21.09	0.1604	-0.0050	0.1036	1.7461	-0.1720	0.8376	21.09

TABLE II. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR

CONFIGURATION, WFHVv; $\beta = -6.1^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$ - Continued(e) $M = 2.98$, $R = 1.87 \times 10^6$, $\delta_s = 35^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-10.14	-0.3169	0.0119	-0.1188	-0.1937	0.0058	-0.1085	-10.14
-7.99	-0.2345	0.0060	-0.0985	-0.0638	-0.0010	-0.0965	-7.99
-5.97	-0.1976	0.0018	-0.0690	-0.0493	-0.0044	-0.0670	-5.97
-3.93	-0.0989	0.0020	-0.0494	-0.0160	-0.0082	-0.0363	-3.93
-1.89	-0.0969	-0.0022	-0.0183	0.1089	-0.0163	-0.0195	-1.89
.17	.0197	-0.0064	-0.0028	0.2308	-0.0269	-0.0048	.17
2.24	.0838	-0.0129	0.0187	0.2609	-0.0306	0.0223	2.24
4.29	.1534	-0.0109	0.0447	0.3396	-0.0378	0.0419	4.29
6.35	.2228	-0.0133	0.0690	0.3694	-0.0464	0.0674	6.35
8.40	.2964	-0.0223	0.0949	0.3656	-0.0493	0.0977	8.40
10.49	.3688	-0.0205	0.1224	0.3097	-0.0545	0.1304	10.49
12.55	.4290	-0.0314	0.1519	0.3540	-0.0589	0.1535	12.55
14.60	.4545	-0.0402	0.1850	0.3799	-0.0653	0.1758	14.60
16.70	.5221	-0.0474	0.2209	0.4284	-0.0718	0.2022	16.70
18.75	.5650	-0.0541	0.2528	0.4884	-0.0766	0.2241	18.75
20.81	.6302	-0.0591	0.2871	0.5365	-0.0832	0.2504	20.81
Horizontal tail, left				Horizontal tail, right			
-10.14	-0.3357	0.0128	-0.0818	-0.6092	-0.6957	-0.0180	-10.14
-7.99	-0.2890	0.0050	-0.0782	-0.5545	-0.6937	0.0058	-7.99
-5.97	-0.2475	-0.0013	-0.0614	-0.5006	-0.6934	0.0274	-5.97
-3.93	-0.2106	-0.0025	-0.0500	-0.4667	-0.6933	0.0397	-3.93
-1.89	-0.1477	-0.0116	-0.0305	-0.4407	-0.6937	0.0547	-1.89
.17	-0.0980	-0.0179	-0.0096	-0.3994	-0.6915	0.0727	.17
2.24	-0.0625	-0.0224	0.0121	-0.3597	-0.6919	0.0922	2.24
4.29	-0.0192	-0.0315	0.0328	-0.4537	-0.6923	0.1258	4.29
6.35	.0439	-0.0456	0.0554	-0.2311	-0.6915	0.1372	6.35
8.40	.0898	-0.0597	0.0803	-0.1631	-0.6915	0.1595	8.40
10.49	.1281	-0.0720	0.0977	-0.1297	-0.6909	0.1758	10.49
12.55	.1746	-0.0845	0.1200	-0.0814	-0.6890	0.1928	12.55
14.60	.2305	-0.1063	0.1524	-0.0269	-0.6889	0.2105	14.60
16.70	.3267	-0.1393	0.1924	0.0341	-0.6885	0.2333	16.70
18.75	.3910	-0.1593	0.2219	0.1026	-0.6877	0.2526	18.75
20.81	.4888	-0.1811	0.2537	0.1573	-0.6857	0.2753	20.81
Vertical tail, upper				Vertical tail, lower			
-10.14	.2914	-0.0693	0.1312	.1885	-0.0308	0.0412	-10.14
-7.99	.2753	-0.0638	0.1239	.1993	-0.0275	0.0469	-7.99
-5.97	.2564	-0.0579	0.1149	.2091	-0.0249	0.0475	-5.97
-3.93	.2346	-0.0520	0.1069	.2233	-0.0273	0.0538	-3.93
-1.89	.2159	-0.0469	0.1002	.2389	-0.0295	0.0609	-1.89
.17	.2030	-0.0414	0.0968	.2640	-0.0327	0.0677	.17
2.24	.1906	-0.0370	0.0888	.2829	-0.0371	0.0765	2.24
4.29	.1748	-0.0355	0.0835	.3090	-0.0430	0.0828	4.29
6.35	.1593	-0.0335	0.0782	.3301	-0.0474	0.0899	6.35
8.40	.1395	-0.0311	0.0734	.3536	-0.0526	0.0981	8.40
10.49	.1405	-0.0356	0.0688	.3737	-0.0576	0.1081	10.49
12.55	.1453	-0.0392	0.0642	.3924	-0.0629	0.1169	12.55
14.60	.1383	-0.0409	0.0629	.4057	-0.0659	0.1260	14.60
16.70	.1024	-0.0311	0.0576	.4270	-0.0705	0.1331	16.70
18.75	.0778	-0.0252	0.0486	.4445	-0.0736	0.1459	18.75
20.81	.0712	-0.0267	0.0475	.4555	-0.0780	0.1607	20.81
Speed brakes, upper				Speed brakes, lower			
-10.14	1.6343	-1.0494	0.7883	.8314	-0.0449	0.3531	-10.14
-7.99	1.6015	-0.939	0.7769	1.1039	-0.0726	0.5129	-7.99
-5.97	1.5374	-0.8885	0.7511	1.3261	-0.1466	0.6729	-5.97
-3.93	1.4808	-0.775	0.7250	1.4023	-0.1691	0.7168	-3.93
-1.89	1.4309	-0.831	0.7130	1.4263	-0.1687	0.7257	-1.89
.17	1.4179	-0.832	0.7152	1.4556	-0.1684	0.7361	.17
2.24	1.4191	-0.899	0.7250	1.4956	-0.1681	0.7477	2.24
4.29	1.4366	-0.890	0.7521	1.5535	-0.1731	0.7720	4.29
6.35	1.2892	-0.286	0.6840	1.6208	-0.1840	0.8043	6.35
8.40	1.0783	.0048	0.5514	1.7064	-0.1893	0.8449	8.40
10.49	.8196	.0164	0.3825	1.7983	-0.2000	0.8883	10.49
12.55	.6522	.0111	0.2965	1.8870	-0.2108	0.9313	12.55
14.60	.4734	-0.0164	0.2156	1.9681	-0.2160	0.9671	14.60
16.70	.2277	-0.0390	0.3476	2.0658	-0.2211	1.0141	16.70
18.75	.1382	-0.0060	0.1026	2.1574	-0.2318	1.0592	18.75
20.81	.1182	-0.0005	0.0888	2.2671	-0.2368	1.1107	20.81

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TABLE II. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR

CONFIGURATION, WFHVv; $\beta = -6.1^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$ - Continued(f) $M = 4.65$, $R = 2.28 \times 10^6$, $\delta_s = 35^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left							
-9.42	-0.2567	.0257	-0.0782	.00527	.0052	-0.0686	-9.42
-7.39	-0.2074	.0171	-0.0610	-0.0788	.0117	-0.0463	-7.39
-5.33	-0.1809	.0143	-0.0399	-0.0616	.0090	-0.0311	-5.33
-3.29	-0.1322	.0086	-0.0223	-0.0203	.0058	-0.0171	-3.29
-1.28	-0.1109	.0058	-0.0056	-0.0205	.0024	-0.0056	-1.28
.76	-0.1001	.0028	.0124	.0620	-0.0070	.0084	.76
2.80	-0.0447	.0058	.0267	.0802	-0.0129	.0235	2.80
4.84	.0189	.0117	.0395	.0497	-0.0113	.0431	4.84
6.86	.1769	.0058	.0403	.0688	-0.0139	.0606	6.86
8.90	.2046	-0.0002	.0610	.0880	-0.0167	.0778	8.90
10.92	.2804	-0.0034	.0794	.1083	-0.0191	.0953	10.92
12.97	.3101	-0.0064	.1025	.1055	-0.0211	.1160	12.97
15.01	.4356	-0.0097	.1184	.1759	-0.0247	.1328	15.01
17.04	.4982	-0.0129	.1463	.1847	-0.0326	.1619	17.04
19.07	.5363	-0.0161	.1758	.2373	-0.0356	.1870	19.07
21.19	.6053	-0.0221	.2077	.2505	-0.0436	.2205	21.19
Horizontal tail, left							
-9.42	-0.2878	.0180	-0.0485	-0.1587	.0159	-0.0401	-9.42
-7.39	-0.2499	.0139	-0.0348	-0.1435	.0119	-0.0279	-7.39
-5.33	-0.1960	.0033	-0.0194	-0.0994	.0079	-0.0144	-5.33
-3.29	-0.1559	.0035	-0.0137	-0.0643	.0039	-0.0053	-3.29
-1.28	-0.1411	.0015	-0.0063	-0.0295	.0001	.0043	-1.28
.76	-0.1022	-0.0004	.0034	-0.0170	-0.0080	.0204	.76
2.80	-0.0760	-0.0025	.0166	.0244	-0.0162	.0359	2.80
4.84	-0.0473	-0.0088	.0355	.0385	-0.0221	.0484	4.84
6.86	-0.0242	-0.0215	.0501	.0731	-0.0261	.0595	6.86
8.90	.0122	-0.0343	.0665	.0968	-0.0322	.0723	8.90
10.92	.0517	-0.0428	.0803	.1287	-0.0401	.0875	10.92
12.97	.0930	-0.0532	.0999	.1796	-0.0483	.1054	12.97
15.01	.1184	-0.0638	.1217	.2176	-0.0604	.1268	15.01
17.04	.1824	-0.0829	.1457	.2844	-0.0723	.1535	17.04
19.07	.2365	-0.0978	.1713	.3303	-0.0866	.1807	19.07
21.19	.3026	-0.1103	.1984	.3936	-0.1026	.2151	21.19
Vertical tail, upper							
-9.42	.1937	-0.0505	.0888	.1873	-0.0205	.0225	-9.42
-7.39	.1881	-0.0479	.0833	.1934	-0.0242	.0256	-7.39
-5.33	.1733	-0.0451	.0794	.1979	-0.0243	.0290	-5.33
-3.29	.1675	-0.0424	.0736	.2042	-0.0280	.0321	-3.29
-1.28	.1573	-0.0404	.0720	.2203	-0.0319	.0324	-1.28
.76	.1582	-0.0376	.0695	.2303	-0.0358	.0333	.76
2.80	.1437	-0.0348	.0658	.2392	-0.0406	.0381	2.80
4.84	.1528	-0.0314	.0674	.2410	-0.0432	.0438	4.84
6.86	.1388	-0.0273	.0580	.2532	-0.0470	.0464	6.86
8.90	.1272	-0.0267	.0555	.2796	-0.0502	.0546	8.90
10.92	.1187	-0.0227	.0456	.2868	-0.0540	.0640	10.92
12.97	.0908	-0.0186	.0447	.3002	-0.0579	.0725	12.97
15.01	.0736	-0.0159	.0429	.3238	-0.0620	.0785	15.01
17.04	.0597	-0.0119	.0397	.3481	-0.0679	.0845	17.04
19.07	.0540	-0.0093	.0280	.3780	-0.0758	.0939	19.07
21.19	.0459	-0.0088	.0211	.4308	-0.0987	.1152	21.19
Speed brakes, upper							
-9.42	1.9952	-0.1953	1.0187	4.4397	-0.0133	.2253	-9.42
-7.39	1.8552	-0.1950	.9272	.6810	-0.0037	.3240	-7.39
-5.33	1.7507	-0.1651	.6753	.7511	-0.0407	.4551	-5.33
-3.29	1.6462	-0.1428	.8334	1.1693	-0.1017	.5821	-3.29
-1.28	1.4997	-0.1201	.7399	1.3125	-0.1165	.6557	-1.28
.76	1.3305	-0.1051	.6534	1.5080	-0.1384	.7492	.76
2.80	1.1392	-0.0828	.5717	1.6865	-0.1685	.8416	2.80
4.84	.9964	-0.0678	.5060	1.8461	-0.1829	.9213	4.84
6.86	.8164	-0.0226	.3947	2.0694	-0.2051	1.0390	6.86
8.90	.5013	-0.0149	.2327	2.2583	-0.2352	1.1436	8.90
10.92	.4020	-0.0455	.2343	2.4409	-0.2420	1.2363	10.92
12.97	.2274	-0.0305	.1516	2.6142	-0.2564	1.3173	12.97
15.01	.1554	.0069	.1096	2.8595	-0.2784	1.4474	15.01
17.04	.0803	.0072	.0554	3.1408	-0.3001	1.5888	17.04
19.07	.0582	.0147	.0452	3.3778	-0.3217	1.6948	19.07
21.19	.0152	.0148	.0155	3.5467	-0.3353	1.7470	21.19

TABLE II. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
CONFIGURATION, WFFHVv; $\beta = -6.1^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_V = 0^\circ$ - Continued

(g) $M = 2.29$, $R = 1.87 \times 10^6$, $\delta_S = 35^\circ$ (lower)

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left						Wing, right	
-10.24	-0.3831	.0418	-0.1643	-0.4168	.0386	-0.1475	-10.24
-8.14	-0.3153	.0314	-0.1360	-0.3638	.0334	-0.1164	-8.14
-6.08	-0.2932	.0225	-0.0929	-0.3243	.0286	-0.0813	-6.08
-4.01	-0.2192	.0157	-0.0594	-0.2212	.0187	-0.0498	-4.01
-1.95	-0.1163	.0125	-0.0271	-0.1486	.0113	-0.0152	-1.95
.19	-0.0309	.0090	.0060	.0070	.0040	.0080	.19
2.24	.0166	.0054	.0407	.0166	.0076	.0490	2.24
4.35	.01749	-.0020	.0630	.01031	.0000	.0829	4.35
6.42	.02361	-.0095	.0973	.0288	-.0101	.1184	6.42
8.49	.03686	-.0155	.1236	.0288	-.0199	.1503	8.49
10.58	.04465	-.0233	.1567	.0274	-.0286	.1838	10.58
12.67	.04677	-.0308	.1974	.03422	-.0384	.2069	12.67
14.77	.5008	-.0384	.2341	.03566	-.0452	.2333	14.77
16.88	.5658	-.0481	.2696	.04324	-.0569	.2576	16.88
18.99	.6258	-.0581	.3007	.04715	-.0603	.2795	18.99
21.06	.6743	-.0696	.3349	.05572	-.0684	.3011	21.06
Horizontal tail, left						Horizontal tail, right	
-10.24	-0.2455	.0348	-0.1119	-0.1549	.0335	-.0803	-10.24
-8.14	-0.1810	.0204	-0.0908	-0.0864	.0235	-.0557	-8.14
-6.08	-0.1397	.0192	-0.0760	-0.0447	.0175	-.0370	-6.08
-4.01	-0.1140	.0195	-0.0654	-0.0102	.0087	-.0197	-4.01
-1.95	-0.0790	.0089	-0.0428	.0289	-.0012	.0027	-1.95
.19	-0.0230	-.0066	-0.0135	.0727	-.0123	.0262	.19
2.24	.0218	.0225	.0198	.01226	-.0237	.0516	2.24
4.35	.0804	-.0423	.0558	.01954	-.0360	.0779	4.35
6.42	.01323	-.0619	.0920	.02433	-.0496	.1065	6.42
8.49	.02124	-.0842	.1262	.03086	-.0647	.1326	8.49
10.58	.02884	-.1065	.1614	.03870	-.0786	.1583	10.58
12.67	.03707	-.1356	.2021	.04411	-.0884	.1792	12.67
14.77	.04557	-.1723	.2490	.04912	-.0959	.1971	14.77
16.88	.05415	-.2094	.3025	.05553	-.1134	.2209	16.88
18.99	.06451	-.2383	.3479	.06267	-.1362	.2484	18.99
21.06	.7379	-.2631	.3982	.07142	-.1704	.2878	21.06
Vertical tail, upper						Vertical tail, lower	
-10.24	.3478	-.0406	.1239	.0308	-.0452	.2108	-10.24
-8.14	.3292	-.0381	.1145	.0187	-.0382	.2111	-8.14
-6.08	.3049	-.0358	.1005	.0180	-.0338	.2125	-6.08
-4.01	.2811	-.0337	.0906	.0220	-.0299	.2139	-4.01
-1.95	.2604	-.0334	.0842	.0306	-.0279	.2176	-1.95
.19	.2515	-.0330	.0759	.0511	-.0264	.2239	.19
2.24	.2350	-.0337	.0716	.0713	-.0262	.2330	2.24
4.35	.2266	-.0332	.0656	.0899	-.0256	.2375	4.35
6.42	.2204	-.0350	.0624	.1007	-.0247	.2461	6.42
8.49	.2184	-.0394	.0610	.1247	-.0253	.2540	8.49
10.58	.2184	-.0458	.0603	.1430	-.0267	.2645	10.58
12.67	.2238	-.0513	.0608	.1598	-.0282	.2736	12.67
14.77	.2265	-.0585	.0672	.1686	-.0279	.2836	14.77
16.88	.0377	-.0610	.0743	.1934	-.0271	.2933	16.88
18.99	.03822	-.0410	.0674	.02011	-.0256	.2998	18.99
21.06	.0380	-.0340	.0537	.02172	-.0231	.3032	21.06
Speed brakes, upper						Speed brakes, lower	
-10.24	.1499	.0276	.0801	1.2907	-.0687	.6094	-10.24
-8.14	.1430	.0322	.0754	1.4385	-.1164	.7095	-8.14
-6.08	.1464	.0322	.0777	1.5104	-.1740	.7692	-6.08
-4.01	.1496	.0322	.0815	1.5063	-.1694	.7713	-4.01
-1.95	.1528	.0322	.0853	1.4957	-.1642	.7546	-1.95
.19	.1560	.0321	.0890	1.4893	-.1592	.7406	.19
2.24	.1592	.0367	.0928	1.4976	-.1542	.7365	2.24
4.35	.1624	.0367	.0950	1.5116	-.1538	.7365	4.35
6.42	.1555	.0414	.0903	1.5260	-.1537	.7398	6.42
8.49	.1454	.0413	.0849	1.5576	-.1533	.7501	8.49
10.58	.1390	.0368	.0820	1.6092	-.1578	.7719	10.58
12.67	.1191	.0322	.0698	1.6521	-.1622	.7898	12.67
14.77	.0898	.0184	.0495	1.6881	-.1619	.8013	14.77
16.88	.0234	.0046	.0100	1.7342	-.1616	.8229	16.88
18.99	.0506	-.0093	.0302	1.7725	-.1661	.8411	18.99
21.06	.0374	-.0139	.0226	1.8292	-.1750	.8635	21.06

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27

TABLE II. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
CONFIGURATION, WFHV; $\beta = -6.1^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_V = 0^\circ$ - Continued

(h) $M = 2.98$, $R = 1.87 \times 10^6$, $\delta_S = 35^\circ$ (lower)

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left							
Wing, right							
-10.16	-0.2972	.0354	-0.1276	-0.5046	.0406	-0.0973	-10.16
-8.07	-0.1947	.0273	-0.1065	-0.3145	.0308	-0.0865	-8.07
-5.98	-0.1572	.0211	-0.0774	-0.3006	.0275	-0.0570	-5.98
-4.00	-0.1241	.0169	-0.0510	-0.2864	.0241	-0.0275	-4.00
-1.91	-0.0888	.0127	-0.0235	-0.2559	.0203	-0.0008	-1.91
.16	-0.0068	.0086	-0.0028	-0.1294	.0121	.0187	.16
2.21	.0259	.0086	.0235	-0.1237	.0111	.0482	2.21
4.28	.1613	.0042	.0395	-0.0265	.0080	.0670	4.28
6.36	.2511	-0.0004	.0642	.0195	-0.0008	.0897	6.36
8.37	.2898	-0.0070	.0933	.0291	-0.0066	.1144	8.37
10.46	.3646	-0.0139	.1208	.0590	-0.0127	.1400	10.46
12.54	.4087	-0.0183	.1547	.0884	-0.0189	.1651	12.54
14.58	.4515	-0.0251	.1866	.1518	-0.0257	.1870	14.58
16.70	.5211	-0.0320	.2241	.2186	-0.0324	.2125	16.70
18.77	.5834	-0.0412	.2552	.2814	-0.0394	.2345	18.77
20.86	.6452	-0.0481	.2863	.3267	-0.0460	.2576	20.86
Horizontal tail, left							
Horizontal tail, right							
-10.16	-0.2124	.0323	-0.0894	-0.1196	.0324	-0.0766	-10.16
-8.07	-0.2078	.0242	-0.0812	-0.0519	.0205	-0.0519	-8.07
-5.98	-0.1557	.0197	-0.0663	-0.0094	.0133	-0.0302	-5.98
-4.00	-0.1188	.0183	-0.0547	.0074	.0089	-0.0169	-4.00
-1.91	-0.0607	.0107	-0.0336	.0427	.0001	-0.0008	-1.91
.16	-0.0134	.0015	-0.0106	.0703	-0.0088	.0175	.16
2.21	.0381	-0.0045	.0116	.1122	-0.0177	.0370	2.21
4.28	.0790	-0.0201	.0374	.1589	-0.0296	.0591	4.28
6.36	.1253	-0.0356	.0623	.2194	-0.0414	.0848	6.36
8.37	.1687	-0.0482	.0902	.2812	-0.0516	.1077	8.37
10.46	.2176	-0.0684	.1192	.3235	-0.0605	.1240	10.46
12.54	.2665	-0.0824	.1421	.3663	-0.0679	.1418	12.54
14.58	.3130	-0.0981	.1671	.4150	-0.0766	.1623	14.58
16.70	.3717	-0.1214	.2008	.4762	-0.0884	.1855	16.70
18.77	.4499	-0.1400	.2270	.5299	-0.1003	.2079	18.77
20.86	.5247	-0.1618	.2581	.5844	-0.1105	.2321	20.86
Vertical tail, upper							
Vertical tail, lower							
-10.16	.3441	-0.0644	.1085	-0.0507	-0.0352	.2313	-10.16
-8.07	.3254	-0.0589	.1021	-0.0554	-0.0312	.2330	-8.07
-5.98	.3068	-0.0545	.0931	-0.0441	-0.0288	.2347	-5.98
-4.00	.2884	-0.0489	.0867	-0.0451	-0.0303	.2372	-4.00
-1.91	.2724	-0.0435	.0791	-0.0282	-0.0327	.2449	-1.91
.16	.2518	-0.0391	.0739	.0089	-0.0367	.2594	.16
2.21	.2375	-0.0352	.0670	.0227	-0.0417	.2680	2.21
4.28	.2231	-0.0312	.0603	.0430	-0.0467	.2734	4.28
6.36	.2102	-0.0293	.0585	.0663	-0.0518	.2847	6.36
8.37	.1923	-0.0288	.0544	.0766	-0.0574	.2941	8.37
10.46	.1854	-0.0298	.0486	.1112	-0.0627	.3027	10.46
12.54	.1887	-0.0335	.0434	.1283	-0.0671	.3061	12.54
14.58	.1876	-0.0365	.0424	.1532	-0.0710	.3120	14.58
16.70	.1717	-0.0330	.0417	.1808	-0.0756	.3237	16.70
18.77	.1537	-0.0321	.0374	.1997	-0.0788	.3328	18.77
20.86	.1524	-0.0340	.0367	.2310	-0.0819	.3479	20.86
Speed brakes, upper							
Speed brakes, lower							
-10.16	.1575	-0.0496	.0881	.7244	-0.0227	.3000	-10.16
-8.07	.1454	-0.0496	.0816	1.0909	-0.0559	.5219	-8.07
-5.98	.1372	-0.0441	.0778	1.2625	-0.1241	.6457	-5.98
-4.00	.1293	-0.0440	.0724	1.3423	-0.1466	.6959	-4.00
-1.91	.1173	-0.0440	.0660	1.3807	-0.1576	.7124	-1.91
.16	.1094	-0.0440	.0623	1.4066	-0.1517	.7204	.16
2.21	.1134	-0.0441	.0651	1.4497	-0.1513	.7342	2.21
4.28	.1132	-0.0441	.0668	1.5171	-0.1564	.7610	4.28
6.36	.1050	-0.0386	.0612	1.6656	-0.1605	.8121	6.36
8.37	.0890	-0.0386	.0538	1.7461	-0.1713	.8476	8.37
10.46	.0774	-0.0440	.0458	1.8221	-0.1822	.8858	10.46
12.54	.0578	-0.0495	.0341	1.9109	-0.1930	.9269	12.54
14.58	.0346	-0.0604	.0199	1.9992	-0.1925	.9696	14.58
16.70	.0075	-0.0768	.0048	2.0935	-0.2034	1.0142	16.70
18.77	.0076	-0.0923	.0068	2.1855	-0.2085	1.0596	18.77
20.86	.0028	-0.0878	.0060	2.2828	-0.2192	1.1046	20.86

TABLE II. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
CONFIGURATION, WFHVv; $\beta = -6.1^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$ - Concluded

(i) $M = 4.65$, $R = 2.28 \times 10^6$, $\delta_s = 35^\circ$ (lower)

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg	
	Wing, left				Wing, right			
-9.43	.2485	.0169	-.0742	.1260	.0006	-.0722	-9.43	
-7.33	-.2226	.0141	-.0534	-.0509	.0082	-.0455	-7.33	
-5.31	-.1960	.0113	-.0323	-.0339	.0054	-.0303	-5.31	
-3.32	-.1500	.0058	-.0167	-.0052	.0022	-.0183	-3.32	
-1.26	-.1262	.0028	.0016	.0511	-.0012	-.0048	-1.26	
.76	-.1450	.0028	.0215	.0148	-.0028	.0128	.76	
2.76	-.0842	.0000	.0355	.0802	-.0129	.0235	2.76	
4.82	.0265	.0030	.0435	.0774	-.0149	.0439	4.82	
6.85	.2298	-.0002	.0395	.0722	-.0171	.0626	6.85	
8.89	.2104	-.0032	.0650	.1147	-.0203	.0766	8.89	
10.93	.2619	-.0062	.0849	.1119	-.0221	.0973	10.93	
12.97	.3161	-.0094	.1065	.1556	-.0253	.1132	12.97	
15.03	.3945	.0125	.1268	.1791	-.0277	.1348	15.03	
17.06	.4814	-.0159	.1535	.2108	-.0330	.1627	17.06	
19.10	.5201	-.0219	.1830	.2403	-.0386	.1886	19.10	
21.17	.6111	-.0281	.2113	.3020	-.0474	.2197	21.17	
	Horizontal tail, left				Horizontal tail, right			
-9.43	-.2269	.0225	-.0574	-.1194	.0157	-.0437	-9.43	
-7.33	-.1780	.0163	-.0435	.0946	.0117	-.0329	-7.33	
-5.31	-.1182	.0101	-.0288	-.0323	.0058	-.0206	-5.31	
-3.32	-.0774	.0082	-.0235	.0038	.0039	-.0111	-3.32	
-1.26	-.0691	.0041	-.0148	.0194	.0000	-.0008	-1.26	
.76	-.0267	-.0001	-.0035	.0525	-.0060	.0139	.76	
2.76	.0090	.0001	.0099	.0830	.0160	.0293	2.76	
4.82	.0327	-.0062	.0314	.0886	-.0201	.0431	4.82	
6.85	.0509	-.0191	.0487	.1319	-.0262	.0528	6.85	
8.89	.0729	-.0297	.0633	.1637	-.0343	.0664	8.89	
10.93	.0980	-.0402	.0793	.1870	-.0402	.0827	10.93	
12.97	.1257	-.0510	.0968	.2283	-.0482	.1003	12.97	
15.03	.1693	-.0613	.1177	.2661	-.0602	.1216	15.03	
17.06	.1860	-.0742	.1444	.3313	-.0743	.1482	17.06	
19.10	.2527	-.0889	.1659	.4076	-.0863	.1729	19.10	
21.17	.3026	-.1059	.1937	.4693	-.1045	.2070	21.17	
	Vertical tail, upper				Vertical tail, lower			
-9.43	.2666	-.0495	.0606	-.0953	-.0220	.2517	-9.43	
-7.33	.2545	-.0469	.0578	-.1096	-.0247	.2614	-7.33	
-5.31	.2500	-.0442	.0498	-.1005	-.0256	.2623	-5.31	
-3.32	.2375	-.0417	.0468	-.0942	-.0295	.2657	-3.32	
-1.26	.2400	-.0397	.0420	-.0729	-.0334	.2591	-1.26	
.76	.2321	-.0384	.0413	-.0734	-.0380	.2674	.76	
2.76	.2260	-.0356	.0417	-.0657	-.0419	.2663	2.76	
4.82	.2245	-.0316	.0381	-.0521	-.0459	.2694	4.82	
6.85	.2150	-.0267	.0339	-.0325	-.0489	.2722	6.85	
8.89	.2036	-.0240	.0287	-.0238	-.0518	.2776	8.89	
10.93	.1913	-.0199	.0200	-.0073	-.0559	.2936	10.93	
12.97	.1616	-.0152	.0181	.0129	-.0598	.2967	12.97	
15.03	.1314	-.0124	.0099	.0192	-.0636	.3047	15.03	
17.06	.1223	-.0118	.0025	.0509	-.0695	.3049	17.06	
19.10	.1173	-.0119	-.0030	.0780	-.0773	.3172	19.10	
21.17	.1143	-.0113	-.0073	.1409	-.1011	.3391	21.17	
	Speed brakes, upper				Speed brakes, lower			
-9.43	.0781	.1710	.0520	.4858	-.0359	.2411	-9.43	
-7.33	.0678	.1638	.0449	.7385	-.0186	.3450	-7.33	
-5.31	.0677	.1637	.0449	1.0250	-.0633	.4498	-5.31	
-3.32	.0515	.1638	.0362	1.2195	-.1088	.6008	-3.32	
-1.26	.0405	.1714	.0286	1.3816	-.1388	.6819	-1.26	
.76	.0351	.1714	.0249	1.5260	-.1609	.7460	.76	
2.76	.0242	.1714	.0199	1.7260	-.1754	.8504	2.76	
4.82	.0080	.1715	.0112	1.9322	-.2054	.9616	4.82	
6.85	.0030	.1640	.0077	2.1610	-.2353	1.0855	6.85	
8.89	-.0237	.1565	-.0082	2.3599	-.2575	1.1946	8.89	
10.93	-.0290	.1491	-.0068	2.5036	-.2644	1.2635	10.93	
12.97	-.0234	.1416	-.0005	2.6818	-.2788	1.3479	12.97	
15.03	-.0234	.1414	-.0005	2.9188	-.2928	1.4703	15.03	
17.06	-.0234	.1414	-.0005	3.1820	-.3145	1.6021	17.06	
19.10	-.0504	.1415	-.0166	3.4292	-.3359	1.7127	19.10	
21.17	-.0500	.1340	-.0164	3.6094	-.3572	1.7727	21.17	

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29

**TABLE III. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
CONFIGURATION, WFHVv; $\beta = 6.0^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$**

(a) $M = 2.29$, $R = 1.87 \times 10^6$, $\delta_s = 35^\circ$.

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left							
-10.26	-0.2142	0.0175	-0.1711	-0.3803	0.0255	-0.1487	-10.26
-8.15	-0.2060	0.0121	-0.1396	-0.3113	0.0179	-0.1184	-8.15
-6.04	-0.1231	0.0054	-0.1120	-0.1791	0.0090	-0.0893	-6.04
-4.00	-0.1294	-0.0020	-0.0670	-0.0632	0.0004	-0.0594	-4.00
-1.91	-0.0810	-0.0092	-0.0295	0.0237	-0.0074	-0.0255	-1.91
.18	.0690	-0.0109	-0.0056	.1322	-0.0117	0.0004	.18
2.25	.0840	-0.0127	.0391	.1881	-0.0209	0.0347	2.25
4.34	.2190	-0.0169	.0682	.3089	-0.0316	0.0562	4.34
6.45	.2708	-0.0281	.1069	.3638	-0.0384	0.0917	6.45
8.51	.3464	-0.0356	.1392	.3753	-0.0406	0.1324	8.51
10.60	.3873	-0.0452	.1687	.4146	-0.0466	0.1687	10.60
12.68	.4092	-0.0545	.1970	.4410	-0.0551	0.2058	12.68
14.80	.4442	-0.0603	.2229	.4785	-0.0587	0.2412	14.80
16.89	.4974	-0.0700	.2488	.5658	-0.0716	0.2767	16.89
18.97	.5273	-0.0738	.2715	.6306	-0.0790	0.3082	18.97
21.08	.6067	-0.0820	.2923	.7118	-0.0887	0.3401	21.08
Horizontal tail, left							
-10.26	-0.1806	0.0246	-0.0801	-0.5788	-0.5856	-0.0619	-10.26
-8.15	-0.1357	0.0113	-0.0527	-0.4980	-0.5852	-0.0390	-8.15
-6.04	-0.0946	0.0076	-0.0386	-0.4517	-0.5853	-0.0277	-6.04
-4.00	-0.0461	-0.0015	-0.0215	-0.4225	-0.5849	-0.0196	-4.00
-1.91	-0.0192	-0.0133	.0033	-0.3956	-0.5844	0.0050	-1.91
.18	.0190	-0.0213	.0281	-0.3387	-0.5836	0.0301	.18
2.25	.0697	-0.0389	.0550	-0.2713	-0.5850	0.0588	2.25
4.34	.1122	-0.0505	.0841	-0.1968	-0.5847	0.0864	4.34
6.45	.1475	-0.0635	.1126	-0.0924	-0.5830	0.1186	6.45
8.51	.1948	-0.0753	.1383	-0.0012	-0.5834	0.1503	8.51
10.60	.2387	-0.0899	.1649	-0.1032	-0.5831	0.1801	10.60
12.68	.2870	-0.1018	.1848	-0.2359	-0.5821	0.2217	12.68
14.80	.3319	-0.1070	.2009	.3561	-0.5825	0.2630	14.80
16.89	.3964	-0.1252	.2246	.4699	-0.5813	0.3107	16.89
18.97	.4543	-0.1475	.2534	.6052	-0.5788	0.3664	18.97
21.08	.5275	-0.1818	.2912	.7261	-0.5766	0.4119	21.08
Vertical tail, upper							
-10.26	-0.3617	0.0494	-0.1537	-0.1635	0.0496	-0.0845	-10.26
-8.15	-0.3298	0.0453	-0.1438	-0.1659	0.0439	-0.0819	-8.15
-6.04	-0.3061	0.0417	-0.1317	-0.1670	0.0378	-0.0819	-6.04
-4.00	-0.2803	0.0392	-0.1202	-0.1693	0.0315	-0.0828	-4.00
-1.91	-0.2606	0.0392	-0.1115	-0.1757	0.0277	-0.0859	-1.91
.18	.2452	0.0397	-0.1044	-0.1861	0.0251	-0.0893	.18
2.25	.2343	0.0409	-0.0975	-0.2077	0.0238	-0.0976	2.25
4.34	.2277	0.0432	-0.0945	-0.2348	0.0236	-0.1072	4.34
6.45	.2168	0.0440	-0.0913	-0.2539	0.0245	-0.1175	6.45
8.51	.2039	0.0427	-0.0856	-0.2719	0.0256	-0.1269	8.51
10.60	.2198	0.0522	-0.0881	-0.2945	0.0271	-0.1357	10.60
12.68	.2218	0.0559	-0.0888	-0.3216	0.0271	-0.1454	12.68
14.80	.2173	0.0607	-0.0920	-0.3324	0.0273	-0.1528	14.80
16.89	.2242	0.0652	-0.0966	-0.3441	0.0247	-0.1590	16.89
18.97	.1453	0.0324	-0.0784	-0.3478	0.0214	-0.1630	18.97
21.08	.1209	0.0204	-0.0626	-0.3509	0.0186	-0.1664	21.08
Speed brakes, upper							
-10.26	1.0244	-0.0471	.5252	.6589	-0.0978	.3511	-10.26
-8.15	1.0079	-0.0471	.5184	.6224	-0.0839	.3409	-8.15
-6.04	.9714	-0.0471	.4963	.6214	-0.0504	.3403	-6.04
-4.00	.9337	-0.0424	.4766	.5701	-0.0268	.3186	-4.00
-1.91	.8686	-0.0285	.4474	.6923	-0.0451	.3707	-1.91
.18	.7651	-0.0054	.4090	.8077	-0.0728	.4166	.18
2.25	.6866	-0.0148	.3747	.8900	-0.0917	.4525	2.25
4.34	.7401	-0.0566	.3941	.9811	-0.1200	.4930	4.34
6.45	.8219	-0.0889	.4241	1.0441	-0.1288	.5182	6.45
8.51	.8989	-0.0797	.4632	1.0943	-0.1379	.5377	8.51
10.60	.9013	-0.0565	.4696	1.1561	-0.1471	.5634	10.60
12.68	.8905	-0.0426	.4653	1.2171	-0.1563	.5918	12.68
14.80	.8391	-0.0333	.4425	1.2599	-0.1609	.6143	14.80
16.89	.7636	-0.0240	.4108	1.3200	-0.1653	.6438	16.89
18.97	.5045	-0.0053	.2823	1.3598	-0.1693	.6602	18.97
21.08	.4433	-0.0007	.2550	1.4063	-0.1690	.6788	21.08

TABLE III. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
CONFIGURATION, WFHVv; $\beta = 6.0^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$ - Continued

(b) $M = 2.98$, $R = 1.87 \times 10^6$, $\delta_s = 35^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
	Wing, left			Wing, right			
-10.19	-0.2451	.0123	-0.1208	-0.2214	.0127	-0.1136	-10.19
-8.02	-0.1968	.0040	-0.0985	-0.1524	.0082	-0.0869	-8.02
-6.04	-0.1486	.0020	-0.0746	-0.0674	.0006	-0.0642	-6.04
-3.96	-0.1599	-0.0044	-0.0399	-0.0327	-0.0048	-0.0419	-3.96
-1.90	-0.0919	-0.0064	-0.0152	-0.1619	-0.0131	-0.0255	-1.90
.17	.0255	-0.0044	.0020	.2086	-0.0197	-0.0052	.17
2.23	.0411	-0.0064	.0323	.2684	-0.0267	.0136	2.23
4.29	.1420	-0.0131	.0502	.3159	-0.0308	.0399	4.29
6.33	.1753	-0.0153	.0766	.3997	-0.0380	.0646	6.33
8.40	.2072	-0.0263	.0993	.4477	-0.0398	.0925	8.40
10.46	.2222	-0.0263	.1264	.5303	-0.0448	.1188	10.46
12.55	.2561	-0.0372	.1511	.5512	-0.0501	.1547	12.55
14.60	.2844	-0.0418	.1727	.5688	-0.0559	.1874	14.60
16.68	.3195	-0.0483	.1986	.6089	-0.0617	.2245	16.68
18.77	.3865	-0.0551	.2197	.6300	-0.0688	.2600	18.77
20.84	.4396	-0.0619	.2444	.6701	-0.0770	.2967	20.84
	Horizontal tail, left			Horizontal tail, right			
-10.19	-0.2643	.0209	-0.0733	-0.6627	-0.6946	-0.0369	-10.19
-8.02	-0.2036	.0053	-0.0447	-0.6070	-0.6937	-0.0247	-8.02
-6.04	-0.1685	.0009	-0.0271	-0.5525	-0.6938	-0.0090	-6.04
-3.96	-0.1210	-0.0069	-0.0154	-0.5184	-0.6932	.0037	-3.96
-1.90	-0.0916	-0.0161	.0019	-0.4930	-0.6931	.0253	-1.90
.17	.0587	-0.0239	.0212	-0.4537	-0.6939	.0461	.17
2.23	-0.0154	-0.0332	.0421	-0.4126	-0.6920	.0640	2.23
4.29	.0371	-0.0457	.0632	-0.3439	-0.6917	.0821	4.29
6.33	.0651	-0.0581	.0906	-0.2768	-0.6927	.1041	6.33
8.40	.1160	-0.0706	.1149	-0.1868	-0.6909	.1285	8.40
10.46	.1537	-0.0814	.1323	-0.1323	-0.6905	.1473	10.46
12.55	.1978	-0.0893	.1500	-0.0788	-0.6916	.1663	12.55
14.60	.2158	-0.0987	.1693	-0.0114	-0.6910	.1937	14.60
16.68	.2794	-0.1094	.1926	.1118	-0.6907	.2305	16.68
18.77	.3273	-0.1203	.2155	.2004	-0.6896	.2586	18.77
20.84	.3798	-0.1293	.2378	.2814	-0.6882	.2880	20.84
	Vertical tail, upper			Vertical tail, lower			
-10.19	-0.3229	.0674	-0.1344	-0.0883	.0334	-0.0870	-10.19
-8.02	-0.2991	.0613	-0.1266	-0.0906	.0303	-0.0825	-8.02
-6.04	-0.2802	.0564	-0.1184	-0.0955	.0269	-0.0833	-6.04
-3.96	-0.2567	.0504	-0.1106	-0.1051	.0271	-0.0868	-3.96
-1.90	-0.2394	.0453	-0.1030	-0.1229	.0295	-0.0950	-1.90
.17	.2178	.0404	-0.0959	-0.1451	.0319	-0.1027	.17
2.23	-0.1963	.0353	-0.0888	-0.1642	.0371	-0.1107	2.23
4.29	.1828	.0329	-0.0826	-0.1798	.0408	-0.1203	4.29
6.33	.1660	.0319	-0.0796	-0.1960	.0459	-0.1303	6.33
8.40	.1486	.0306	-0.0739	-0.2228	.0511	-0.1360	8.40
10.46	.1520	.0347	-0.0684	-0.2464	.0553	-0.1437	10.46
12.55	.1537	.0383	-0.0622	-0.2738	.0600	-0.1539	12.55
14.60	.1422	.0392	-0.0612	-0.2927	.0636	-0.1621	14.60
16.68	.1363	.0388	-0.0608	-0.3163	.0668	-0.1701	16.68
18.77	-0.0910	.0247	-0.0475	-0.3396	.0699	-0.1778	18.77
20.84	-0.0907	.0278	-0.0450	-0.3595	.0721	-0.1872	20.84
	Speed brakes, upper			Speed brakes, lower			
-10.19	.9363	-0.0504	.5030	.4432	-0.0776	.2390	-10.19
-8.02	.8836	-0.0504	.4779	.4418	-0.0723	.2495	-8.02
-6.04	.8362	-0.0559	.4526	.4413	-0.0610	.2512	-6.04
-3.96	.7881	-0.0503	.4231	.4684	-0.0329	.2773	-3.96
-1.90	.7235	-0.0338	.3916	.5866	-0.0494	.3402	-1.90
.17	.6296	-0.0008	.3491	.6890	-0.0827	.3866	.17
2.23	.5265	-0.0117	.2927	.7706	-0.1104	.4208	2.23
4.29	.5051	-0.0554	.2705	.8513	-0.1269	.4583	4.29
6.33	.5349	-0.0884	.2816	.9231	-0.1379	.4954	6.33
8.40	.5992	-0.0939	.3148	.9948	-0.1491	.5382	8.40
10.46	.6380	-0.0776	.3416	1.0708	-0.1601	.5782	10.46
12.55	.6131	-0.0611	.3319	1.1473	-0.1767	.6148	12.55
14.60	.5765	-0.0446	.3105	1.2320	-0.1875	.6550	14.60
16.68	.4602	-0.0335	.2525	1.3429	-0.2039	.7052	16.68
18.77	.3314	-0.0225	.1896	1.4396	-0.2144	.7479	18.77
20.84	.3025	-0.0115	.1771	1.5524	-0.2247	.7980	20.84

~~REF ID: A6482~~

31

TABLE III. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR

CONFIGURATION, WFHV_v; $\beta = 6.0^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$ - Continued

(c) $M = 4.65$, $R = 2.28 \times 10^8$, $\delta_s = 35^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-9.42	-0.2134	.0201	-0.0650	-0.0096	.0119	-0.0770	-9.42
-7.39	-0.1695	.0231	-0.0494	-0.1428	.0187	-0.0546	-7.39
-5.33	-0.2100	.0113	-0.0227	-0.0941	.0125	-0.0363	-5.33
-3.31	-0.1466	.0115	-0.0124	-0.0515	.0062	-0.0227	-3.31
-1.26	-0.1500	.0115	.0056	-0.0179	.0024	-0.0076	-1.26
.76	-0.1209	.0115	.0203	.0355	-0.0002	.0096	.76
2.78	-0.0682	.0058	.0279	.0997	-0.0072	.0203	2.78
4.84	-0.0058	.0058	.0383	.0784	-0.0117	.0463	4.84
6.86	-0.0098	.0088	.0566	.0513	-0.0070	.0706	6.86
8.90	-0.0136	-0.0030	.0730	.0945	-0.0070	.0869	8.90
10.93	.0570	.0000	.0889	.1171	-0.0064	.1089	10.93
12.98	.1063	-0.0117	.1041	.1420	-0.0056	.1328	12.98
14.99	.1566	-0.0117	.1236	.1913	-0.0054	.1555	14.99
17.06	.2132	-0.0149	.1475	.2702	-0.0088	.1814	17.06
19.10	.2960	-0.0239	.1703	.3261	-0.0145	.2081	19.10
21.17	.3598	-0.0330	.1982	.4346	-0.0213	.2373	21.17
Horizontal tail, left				Horizontal tail, right			
-9.42	-0.2208	.0184	-0.0393	-0.1850	.0178	-0.0527	-9.42
-7.39	-0.2042	.0140	-0.0265	-0.1709	.0116	-0.0404	-7.39
-5.33	-0.1541	.0056	-0.0123	-0.1226	-0.006	-0.0222	-5.33
-3.31	-0.1327	.0016	-0.0018	-0.1152	-0.0025	-0.0143	-3.31
-1.26	-0.1198	-0.0048	.0097	-0.760	-0.0004	-0.0089	-1.26
.76	-0.0852	-0.0090	.0262	-0.0689	-0.0021	.0025	.76
2.78	-0.0447	-0.0130	.0411	-0.0345	-0.0060	.0156	2.78
4.84	-0.0108	-0.0215	.0519	.0116	-0.0057	.0324	4.84
6.86	.0134	-0.0257	.0640	.0735	-0.0117	.0470	6.86
8.90	.0415	-0.0320	.0772	.1068	-0.0176	.0602	8.90
10.93	.0577	-0.0405	.0946	.1707	-0.0217	.0710	10.93
12.98	.1076	-0.0533	.1128	.2200	-0.0316	.0910	12.98
14.99	.1447	-0.0659	.1349	.2405	-0.0417	.1094	14.99
17.06	.1756	-0.0808	.1636	.3255	-0.0559	.1331	17.06
19.10	.2355	-0.0955	.1919	.3717	-0.0702	.1569	19.10
21.17	.2705	-0.1127	.2278	.4261	-0.0862	.1854	21.17
Vertical tail, upper				Vertical tail, lower			
-9.42	-0.2053	.0540	-0.0918	-0.0607	.0208	-0.0631	-9.42
-7.39	-0.1867	.0505	-0.0895	-0.0832	.0249	-0.0677	-7.39
-5.33	-0.1753	.0471	-0.0752	-0.0878	.0240	-0.0714	-5.33
-3.31	-0.1663	.0445	-0.0713	-0.1053	.0279	-0.0725	-3.31
-1.26	-0.1594	.0417	-0.0684	-0.1074	.0308	-0.0782	-1.26
.76	-0.1492	.0383	-0.0670	-0.1189	.0358	-0.0794	.76
2.78	-0.1465	.0348	-0.0661	-0.1320	.0395	-0.0717	2.78
4.84	-0.1462	.0316	-0.0601	-0.1275	.0413	-0.0779	4.84
6.86	-0.1318	.0275	-0.0567	-0.1318	.0443	-0.0853	6.86
8.90	-0.1178	.0275	-0.0532	-0.1397	.0463	-0.0905	8.90
10.93	-0.1080	.0249	-0.0459	-0.1481	.0493	-0.0953	10.93
12.98	-0.0915	.0214	-0.0413	-0.1691	.0524	-0.0990	12.98
14.99	-0.0716	.0180	-0.0415	-0.1876	.0553	-0.1010	14.99
17.06	-0.0537	.0155	-0.0303	-0.2240	.0614	-0.0987	17.06
19.10	-0.0429	.0129	-0.0223	-0.2520	.0692	-0.1055	19.10
21.17	-0.0370	.0116	-0.0165	-0.3057	.0911	-0.1252	21.17
Speed brakes, upper				Speed brakes, lower			
-9.42	.6469	-0.0682	.3704	.2341	-0.0301	.1326	-9.42
-7.39	.5600	-0.0681	.3256	.1828	-0.0303	.1056	-7.39
-5.33	.5058	-0.0756	.3007	.1930	-0.0228	.1204	-5.33
-3.31	.4660	.0736	.2864	.2546	-0.0151	.1622	-3.31
-1.26	.4011	-0.0457	.2512	.3962	-0.0229	.2310	-1.26
.76	.3296	-0.0232	.2121	.4196	-0.0457	.2661	.76
2.78	.2440	-0.0228	.1455	.5005	-0.0683	.3028	2.78
4.84	.2127	-0.0301	.1139	.5933	-0.0908	.3448	4.84
6.86	.2400	-0.0376	.1302	.6688	-0.1133	.3777	6.86
8.90	.3107	-0.0527	.1764	.7667	-0.1282	.4258	8.90
10.93	.3043	-0.0379	.1795	.8765	-0.1506	.4769	10.93
12.98	.2172	-0.0228	.1271	1.0026	-0.1654	.5415	12.98
14.99	.1300	-0.0077	.0771	1.1512	-0.1802	.6215	14.99
17.06	.0756	-0.0077	.0521	1.3454	-0.2026	.7297	17.06
19.10	.0535	-0.0002	.0419	1.4945	-0.2251	.8074	19.10
21.17	.0702	-0.0002	.0433	1.6444	-0.2551	.8829	21.17

TABLE III. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
CONFIGURATION, WFHVv; $\beta = 6.0^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_V = 0^\circ$ - Continued

(d) $M = 2.29$, $R = 1.87 \times 10^6$, $\delta_S = 35^\circ$ (lower)

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left							
-10.33	-0.2856	.0350	-.1739	-.3879	.0390	-.1507	-10.33
-8.17	-.3008	.0298	-.1372	-.3959	.0342	-.1148	-8.17
-6.09	-.1761	.0213	-.1128	-.2308	.0255	-.0861	-6.09
-4.01	-.1947	.0157	-.0650	-.1422	.0157	-.0526	-4.01
-1.90	-.1468	.0088	-.0271	-.0088	.0070	-.0207	-1.90
.17	-.0201	.0054	.0000	-.0026	.0046	.0144	.17
2.22	.0160	.0018	.0395	.0640	-.0012	.0451	2.22
4.32	.1091	-.0020	.0750	.1711	-.0080	.0698	4.32
6.44	.2022	-.0094	.1089	.1960	-.0123	.1069	6.44
8.51	.2641	-.0189	.1431	.2521	-.0169	.1439	8.51
10.59	.3059	-.0265	.1743	.2627	-.0191	.1830	10.59
12.67	.3273	-.0354	.2018	.3333	-.0245	.2193	12.67
14.77	.3610	-.0430	.2265	.4288	-.0344	.2488	14.77
16.88	.3851	-.0505	.2568	.4282	-.0440	.2895	16.88
18.97	.4619	-.0583	.2763	.5672	-.0547	.3166	18.97
21.09	.5104	-.0643	.2999	.6193	-.0637	.3497	21.09
Horizontal tail, left							
-10.33	-.1854	.0390	-.0828	-.2016	.0291	-.1107	-10.33
-8.17	-.1232	.0248	-.0531	-.1335	.0178	-.0871	-8.17
-6.09	-.0984	.0207	-.0375	-.0870	.0180	-.0757	-6.09
-4.01	-.0601	.0130	-.0193	-.0523	.0182	-.0663	-4.01
-1.90	-.0116	.0013	.0039	-.0210	.0057	-.0417	-1.90
.17	.0102	-.0080	.0295	.0202	-.0094	.0128	.17
2.22	.0581	-.0209	.0551	.0802	-.0229	.0152	2.22
4.32	.1028	-.0369	.0848	.1729	-.0405	.0499	4.32
6.44	.1375	-.0487	.1137	.2709	-.0591	.0848	6.44
8.51	.1824	-.0619	.1407	.3497	-.0806	.1192	8.51
10.59	.2218	-.0777	.1681	.4453	-.1047	.1524	10.59
12.67	.2776	-.0881	.1889	.5341	-.1348	.1952	12.67
14.77	.3261	-.0972	.2060	.6351	-.1678	.2396	14.77
16.88	.3982	-.1155	.2307	.7423	-.2055	.2917	16.88
18.97	.4263	-.1381	.2600	.8187	-.2370	.3409	18.97
21.09	.4932	-.1723	.3006	.9543	-.2594	.3857	21.09
Vertical tail, upper							
-10.33	-.2994	.0471	-.1681	-.3648	.0493	.0526	-10.33
-8.17	-.2674	.0428	-.1578	-.3613	.0424	.0523	-8.17
-6.09	-.2438	.0391	-.1457	-.3651	.0367	.0538	-6.09
-4.01	-.2168	.0368	-.1335	-.3735	.0312	.0521	-4.01
-1.90	-.1980	.0356	-.1232	-.3828	.0273	.0503	-1.90
.17	-.1806	.0361	-.1172	-.3913	.0242	.0464	.17
2.22	.1689	.0366	-.1099	-.4106	.0229	.0421	2.22
4.32	.1543	.0366	-.1051	-.4308	.0227	.0344	4.32
6.44	.1464	.0389	-.1012	-.4536	.0242	.0256	6.44
8.51	.1459	.0445	-.1005	-.4719	.0251	.0165	8.51
10.59	.1479	.0510	-.0991	-.4926	.0267	.0065	10.59
12.67	.1479	.0572	-.1005	-.5118	.0271	-.0037	12.67
14.77	.1524	.0630	-.1039	-.5258	.0264	-.0134	14.77
16.88	.1657	.0692	-.1094	-.5379	.0232	-.0171	16.88
18.97	.0955	.0443	-.0979	-.5419	.0210	-.0239	18.97
21.09	.0778	.0363	-.0885	-.5485	.0173	-.0267	21.09
Speed brakes, upper							
-10.33	.0246	.0463	.0171	.7261	-.0972	.3790	-10.33
-8.17	.0248	.0416	.0173	.6714	-.0930	.3630	-8.17
-6.09	.0180	.0416	.0141	.6594	-.0546	.3518	-6.09
-4.01	.0145	.0462	.0117	.6261	-.0359	.3422	-4.01
-1.90	.0147	.0416	.0119	.7374	-.0542	.3902	-1.90
.17	.0115	.0370	.0112	.8309	-.0677	.4262	.17
2.22	.0148	.0370	.0135	.9281	-.0909	.4678	2.22
4.32	.0183	.0323	.0159	1.0110	-.1142	.5046	4.32
6.44	.0253	.0277	.0191	1.0832	-.1376	.5358	6.44
8.51	.0354	.0277	.0245	1.1551	-.1514	.5667	8.51
10.59	.0287	.0277	.0214	1.2134	-.1559	.5916	10.59
12.67	.0286	.0276	.0229	1.2730	-.1601	.6177	12.67
14.77	.0289	.0184	.0247	1.3386	-.1694	.6490	14.77
16.88	.0325	.0137	.0256	1.3831	-.1688	.6667	16.88
18.97	.0191	.0138	.0179	1.4471	-.1635	.6924	18.97
21.09	.0224	.0137	.0202	1.4787	-.1680	.7059	21.09

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TABLE III. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
CONFIGURATION, WFHVV; $\beta = 6.0^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$ - Continued

(e) $M = 2.98$, $R = 1.87 \times 10^6$, $\delta_B = 35^\circ$ (lower)

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left							
-10.16	-0.2066	.0316	-0.1304	-0.4308	.0388	-0.1093	-10.16
-8.07	-0.1917	.0231	-0.1049	-0.3363	.0358	-0.0873	-8.07
-5.99	-0.1414	.0191	-0.0797	-0.2670	.0290	-0.0606	-5.99
-3.97	-0.1354	.0147	-0.0455	-0.1968	.0223	-0.0339	-3.97
-1.88	-0.0832	.0127	-0.0187	-0.1837	.0165	-0.0060	-1.88
.18	-0.0176	.0064	.0044	-0.1133	.0117	.0148	.18
2.21	.0201	.0064	.0335	-0.0744	.0076	.0391	2.21
4.28	.1199	.0020	.0514	-0.0265	.0034	.0654	4.28
6.34	.1711	-0.0002	.0770	-0.0213	-0.0008	.0917	6.34
8.39	.2040	-0.0090	.1013	-0.0519	-0.0022	.1200	8.39
10.48	.2028	-0.0153	.1292	.0646	-0.0010	.1499	10.48
12.52	.2704	-0.0243	.1503	.1723	-0.0084	.1782	12.52
14.60	.2631	-0.0243	.1750	.1372	-0.0107	.2149	14.60
16.70	.3514	-0.0354	.1966	.2686	-0.0181	.2488	16.70
18.77	.4003	-0.0420	.2185	.3755	-0.0277	.2771	18.77
20.86	.4559	-0.0489	.2452	.4180	-0.0380	.3138	20.86
Horizontal tail, left							
-10.16	-0.1677	.0402	-0.0760	-0.1820	.0304	-0.0968	-10.16
-8.07	-0.1100	.0263	-0.0483	-0.1178	.0214	-0.0850	-8.07
-5.99	-0.0645	.0202	-0.0299	-0.0585	.0172	-0.0712	-5.99
-3.97	-0.0293	.0140	-0.0161	-0.0337	.0143	-0.0561	-3.97
-1.88	.0154	.0048	.0004	.0078	.0055	-0.0343	-1.88
.18	.0411	-0.0045	.0207	.0351	-0.0032	-0.0117	.18
2.21	.0653	-0.0140	.0430	.0715	-0.0091	.0097	2.21
4.28	.0984	-0.0264	.0654	.1413	-0.0177	.0311	4.28
6.34	.1401	-0.0389	.0922	.2094	-0.0295	.0546	6.34
8.39	.1886	-0.0512	.1151	.2776	-0.0397	.0805	8.39
10.48	.2170	-0.0621	.1356	.3351	-0.0560	.1091	10.48
12.52	.2409	-0.0716	.1536	.3928	-0.0743	.1327	12.52
14.60	.2968	-0.0808	.1736	.4523	-0.0874	.1557	14.60
16.70	.3333	-0.0917	.1985	.5341	-0.1099	.1863	16.70
18.77	.3810	-0.1024	.2210	.6038	-0.1293	.2128	18.77
20.86	.4423	-0.1165	.2469	.6629	-0.1532	.2451	20.86
Vertical tail, upper							
-10.16	-0.2679	.0684	-0.1567	-0.3609	.0312	.1055	-10.16
-8.07	-0.2417	.0625	-0.1498	-0.3658	.0279	.1044	-8.07
-5.99	-0.2190	.0571	-0.1422	-0.3716	.0245	.1038	-5.99
-3.97	-0.1980	.0510	-0.1330	-0.3810	.0242	.1001	-3.97
-1.88	-0.1808	.0459	-0.1255	-0.3999	.0271	.0919	-1.88
.18	.1594	.0410	.1184	.4135	.0295	.0831	.18
2.21	.1425	.0365	.1110	.4454	.0349	.0748	2.21
4.28	.1148	.0325	.1028	.4592	.0391	.0663	4.28
6.34	.1003	.0301	.0963	.4823	.0435	.0600	6.34
8.39	.0852	.0296	.0915	.5066	.0487	.0523	8.39
10.48	.0772	.0317	.0853	.5263	.0531	.0441	10.48
12.52	.0775	.0355	.0784	.5608	.0577	.0421	12.52
14.60	.0745	.0374	.0768	.5777	.0612	.0350	14.60
16.70	.0691	.0379	.0766	.6019	.0651	.0276	16.70
18.77	.0446	.0329	.0743	.6234	.0675	.0210	18.77
20.86	.0414	.0345	.0727	.6463	.0694	.0105	20.86
Speed brakes, upper							
-10.16	.0134	-0.0330	.0091	.5102	-0.0654	.2598	-10.16
-8.07	.0053	-0.0329	.0054	.4839	-0.0601	.2535	-8.07
-5.99	.0054	-0.0330	.0054	.4756	-0.0434	.2534	-5.99
-3.97	.0014	-0.0330	.0027	.4898	-0.0153	.2709	-3.97
-1.88	-0.0025	-0.0329	-0.0001	.5908	-0.0262	.3241	-1.88
.18	.0025	-0.0329	.0001	.7060	-0.0651	.3791	.18
2.21	-.0028	.0275	-.0002	.8135	-0.0872	.4269	2.21
4.28	.0015	-0.0329	.0009	.8800	-0.1035	.4569	4.28
6.34	.0015	-0.0329	.0009	.9485	-0.1146	.4917	6.34
8.39	.0053	-0.0274	.0017	1.0227	-0.1255	.5346	8.39
10.48	.0016	-0.0329	-.0009	1.0864	-0.1423	.5700	10.48
12.52	.0019	-0.0384	-.0007	1.1724	-0.1591	.6147	12.52
14.60	-.0018	-0.0439	-.0033	1.2390	-0.1755	.6448	14.60
16.70	-.0019	-0.0439	-.0015	1.3568	-0.1860	.6999	16.70
18.77	-.0020	-0.0438	-.0003	1.4574	-0.1965	.7453	18.77
20.86	.0021	-0.0494	.0049	1.4745	-0.2085	.7738	20.86
Speed brakes, lower							

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34

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TABLE III. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR

CONFIGURATION, WFHVv; $\beta = 6.0^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$ - Concluded(f) $M = 4.65$, $R = 1.87 \times 10^6$, $\delta_s = 35^\circ$ (lower)

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left							
Wing, right							
-9.43	-0.1829	.0171	-0.0618	0.0886	.0070	-.0817	-9.43
-7.36	-0.1617	.0143	-0.0451	-.01143	.0151	-.0538	-7.36
-5.34	-0.2044	.0113	-0.0183	-.0094	.0119	-.0375	-5.34
-3.32	-0.1412	.0115	-.0084	-.00249	.0056	-.0215	-3.32
-1.28	-0.1849	.0086	.0148	-.0064	.0030	-.0040	-1.28
.75	-0.1169	.0086	.0223	.0389	-.0034	.0120	.75
2.80	-.0624	.0028	.0323	.1029	-.0072	.0223	2.80
4.82	-.0235	.0030	.0435	.1059	-.0121	.0475	4.82
6.86	-.0032	.0030	.0606	.1272	-.0086	.0694	6.86
8.88	.0375	.0058	.0742	.2150	-.0068	.0809	8.88
10.92	.0644	-.0088	.0925	.1669	-.0046	.1085	10.92
12.97	.1354	-.0117	.1069	.2379	-.0052	.1276	12.97
15.01	.1623	-.0147	.1276	.2627	-.0046	.1515	15.01
17.06	.2447	-.0237	.1499	.2962	-.0092	.1818	17.06
19.08	.2804	-.0296	.1770	.3265	-.0113	.2101	19.08
21.17	.3432	-.0358	.2050	.4128	-.0175	.2424	21.17
Horizontal tail, left							
Horizontal tail, right							
-9.43	-0.1738	.0250	-.0446	-.1369	.0155	-.0594	-9.43
-7.36	-0.1495	.0206	-.0328	-.0936	.0094	-.0493	-7.36
-5.34	-0.1072	.0124	-.0176	-.0541	-.0006	-.0301	-5.34
-3.32	-0.0685	.0103	-.0079	-.0467	-.0025	-.0221	-3.32
-1.28	-0.0597	.0018	.0046	-.0088	-.0024	-.0167	-1.28
.75	-.0126	-.0022	.0187	-.0020	-.0042	-.0033	.75
2.80	.0287	-.0085	.0340	.0226	-.0081	.0110	2.80
4.82	.0529	-.0126	.0457	.0854	-.0118	.0291	4.82
6.86	.0589	-.0169	.0585	.1363	-.0199	.0451	6.86
8.88	.0685	-.0233	.0725	.1681	-.0281	.0584	8.88
10.92	.1050	-.0361	.0889	.2245	-.0278	.0701	10.92
12.97	.1355	-.0466	.1081	.2754	-.0357	.0861	12.97
15.01	.1619	-.0593	.1298	.3064	-.0437	.1068	15.01
17.06	.1974	-.0785	.1598	.3722	-.0578	.1297	17.06
19.08	.2275	-.0911	.1886	.4198	-.0700	.1514	19.08
21.17	.2740	-.1102	.2244	.4934	-.0861	.1787	21.17
Vertical tail, upper							
Vertical tail, lower							
-9.43	-0.2069	.0531	-.0924	-.0588	.0208	-.0671	-9.43
-7.36	-0.1884	.0495	-.0901	-.0747	.0247	-.0720	-7.36
-5.34	-0.1850	.0463	-.0798	-.0859	.0240	-.0754	-5.34
-3.32	-0.1624	.0430	-.0727	-.0963	.0269	-.0768	-3.32
-1.28	-0.1523	.0402	-.0713	-.1096	.0308	-.0796	-1.28
.75	-.1475	.0368	-.0693	-.1170	.0358	-.0831	.75
2.80	.1482	.0340	-.0668	-.1236	.0386	-.0762	2.80
4.82	.1445	.0301	-.0624	-.1233	.0413	-.0802	4.82
6.86	.1280	.0267	-.0580	-.1088	.0428	-.0953	6.86
8.88	.1115	.0240	-.0537	-.1227	.0452	-.0942	8.88
10.92	.1050	.0206	-.0447	-.1513	.0483	-.0930	10.92
12.97	-.0087	.0155	-.0670	-.4821	.0496	.1308	12.97
15.01	.0112	.0129	-.0638	-.4978	.0535	.1266	15.01
17.06	.0331	.0131	-.0532	-.5352	.0585	.1283	17.06
19.08	.0362	.0137	-.0486	-.5683	.0664	.1240	19.08
21.17	.0338	.0132	-.0438	-.6232	.0874	.1041	21.17
Speed brakes, upper							
Speed brakes, lower							
-9.43	-.0676	.1712	-.0309	.3255	-.0447	.1739	-9.43
-7.36	-.0577	.1713	-.0309	.2517	-.0450	.1342	-7.36
-5.34	-.0580	.1787	-.0311	.2622	-.0375	.1466	-5.34
-3.32	-.0680	.1788	-.0311	.3292	-.0300	.1946	-3.32
-1.28	-.0630	.1862	-.0276	.4198	-.0452	.2533	-1.28
.75	-.0683	.1861	-.0313	.4998	-.0681	.2998	.75
2.80	-.0580	.1936	-.0241	.5806	-.0829	.3363	2.80
4.82	-.0631	.1861	-.0252	.6732	-.1130	.3783	4.82
6.86	-.0527	.1936	-.0180	.7596	-.1280	.4212	6.86
8.88	-.0524	.1861	-.0178	.8400	-.1507	.4653	8.88
10.92	-.0534	.2085	-.0184	.9668	-.1652	.5201	10.92
12.97	-.0479	.2010	-.0121	.1098	-.1876	.5963	12.97
15.01	-.0529	.1936	-.0156	.12410	-.1947	.6644	15.01
17.06	-.0472	.1861	-.0117	.14236	-.2249	.7675	17.06
19.08	-.0464	.1712	-.0137	.15611	-.2395	.8348	19.08
21.17	-.0360	.1786	-.0065	.17161	-.2694	.9139	21.17

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TABLE IV. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
DIFFERENT MODEL CONFIGURATIONS; $\beta = 0^\circ$

(a) WFFVV, $M = 2.29$, $R = 1.87 \times 10^6$, $\delta_v = 0^\circ$, $\delta_s = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg	
	Wing, left				Wing, right			
-10.28	-.3067	.0388	-.1659	-.3991	.0444	-.1443	-10.28	
-8.16	-.3227	.0314	-.1292	-.4595	.0412	-.1101	-8.16	
-6.08	-.2824	.0243	-.0965	-.2786	.0296	-.0837	-6.08	
-3.97	-.1645	.0195	-.0650	-.1781	.0221	-.0534	-3.97	
-1.91	-.0868	.0125	-.0287	-.1350	.0149	-.0159	-1.91	
.21	.0357	.0109	.0024	-.0183	.0107	.0167	.21	
2.29	.0646	.0072	.0415	-.0094	.0084	.0546	2.29	
4.39	.2268	-.0004	.0662	.0893	.0044	.0869	4.39	
6.46	.3480	-.0084	.0957	.1302	-.0064	.1212	6.46	
8.57	.3777	-.0155	.1304	.1540	-.0107	.1571	8.57	
10.65	.3783	-.0229	.1675	.2361	-.0165	.1886	10.65	
12.78	.4342	-.0324	.1962	.2880	-.0255	.2201	12.78	
14.88	.4771	-.0420	.2273	.3522	-.0348	.2480	14.88	
17.02	.5239	-.0497	.2624	.4043	-.0440	.2807	17.02	
19.12	.5816	-.0577	.2919	.5088	-.0545	.3034	19.12	
21.26	.6560	-.0696	.3206	.6019	-.0682	.3298	21.26	

	Vertical tail, upper				Vertical tail, lower			
-10.28	-.0003	.0000	-.0057	-.0129	-.0009	.0031	-10.28	
-8.16	.0008	.0000	-.0053	-.0189	-.0009	.0040	-8.16	
-6.08	.0020	-.0005	-.0048	-.0189	-.0009	.0040	-6.08	
-3.97	.0047	.0000	-.0053	-.0203	-.0009	.0065	-3.97	
-1.91	.0030	.0000	-.0044	-.0257	-.0009	.0074	-1.91	
.21	.0040	.0003	-.0037	-.0290	-.0009	.0091	.21	
2.29	.0051	.0000	-.0032	-.0344	-.0009	.0100	2.29	
4.39	.0051	.0003	-.0032	-.0344	-.0009	.0100	4.39	
6.46	.0109	.0008	-.0028	-.0309	-.0009	.0082	6.46	
8.57	.0078	.0013	-.0016	-.0276	-.0009	.0065	8.57	
10.65	.0076	.0016	-.0016	-.0222	-.0009	.0057	10.65	
12.78	.0078	.0008	-.0016	-.0129	-.0009	.0031	12.78	
14.88	.0030	.0008	-.0011	-.0150	-.0009	.0048	14.88	
17.02	.0030	.0000	-.0011	-.0276	-.0009	.0065	17.02	
19.12	.0078	.0013	-.0039	-.0115	-.0011	.0040	19.12	
21.26	.0020	.0021	-.0028	-.0115	-.0011	.0040	21.26	

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36

TABLE IV.- SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
DIFFERENT MODEL CONFIGURATIONS; $\beta = 0^\circ$ - Continued

(b) WFVV, $M = 2.98$, $R = 1.87 \times 10^6$, $\delta_v = 0^\circ$, $\delta_s = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
	Wing, left			Wing, right			
-10.05	-2190	.0261	-.1248	-.2862	.0336	-.1077	-10.05
-8.05	-1861	.0197	-.0993	-.3538	.0330	-.0782	-8.05
-5.99	-1516	.0153	-.0722	-.2838	.0285	-.0518	-5.99
-3.94	-0640	.0109	-.0494	-.2158	.0237	-.0275	-3.94
-1.85	.0052	.0066	-.0259	-.1669	.0193	-.0020	-1.85
.21	.0237	.0044	.0020	-.1342	.0173	.0211	.21
2.25	.1041	.0044	.0219	-.0762	.0103	.0423	2.25
4.31	.2248	-.0026	.0379	-.0299	.0060	.0658	4.31
6.37	.2593	-.0050	.0650	.0168	.0038	.0913	6.37
8.41	.3133	-.0095	.0909	.0291	.0050	.1224	8.41
10.53	.3345	-.0163	.1220	.0433	.0016	.1527	10.53
12.55	.3708	-.0233	.1491	.0955	-.0076	.1798	12.55
14.64	.4424	-.0302	.1723	.1813	-.0149	.2034	14.64
16.72	.4348	-.0392	.2117	.2024	-.0231	.2384	16.72
18.78	.5279	-.0466	.2357	.2738	-.0324	.2664	18.78
20.93	.6095	-.0561	.2652	.4033	-.0474	.2931	20.93

	Vertical tail, upper			Vertical tail, lower			
-10.05	.0012	.0015	-.0039	-.0042	.0015	.0054	-10.05
-8.05	.0026	.0015	-.0032	-.0084	.0015	.0065	-8.05
-5.99	.0026	.0010	-.0032	-.0068	.0015	.0077	-5.99
-3.94	.0062	.0010	-.0039	-.0135	.0015	.0105	-3.94
-1.85	.0134	.0005	-.0034	-.0135	.0015	.0105	-1.85
.21	.0096	.0005	-.0021	-.0177	.0017	.0117	.21
2.25	.0096	.0005	-.0021	-.0177	.0017	.0117	2.25
4.31	.0098	.0000	-.0021	-.0108	.0015	.0085	4.31
6.37	.0068	.0000	-.0014	-.0084	.0015	.0085	6.37
8.41	.0061	.0000	-.0007	-.0084	.0015	.0065	8.41
10.53	.0068	.0000	-.0014	-.0080	.0007	.0063	10.53
12.55	.0048	.0000	.0000	-.0080	.0007	.0063	12.55
14.64	.0014	.0000	.0007	-.0038	.0007	.0054	14.64
16.72	.0048	.0000	.0000	-.0038	.0007	.0054	16.72
18.78	.0059	.0010	-.0007	.0002	.0006	.0046	18.78
20.93	.0091	.0005	-.0007	.0017	.0006	.0057	20.93

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37

TABLE IV. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
DIFFERENT MODEL CONFIGURATIONS; $\beta = 0^\circ$ - Continued

(c) WFFVv, $M = 4.65$, $R = 2.28 \times 10^6$, $\delta_v = 0^\circ$, $\delta_s = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-9.47	-0.2579	0.0199	-0.0602	-0.1751	0.0223	-0.0598	-9.47
-7.36	-0.2102	0.0171	-0.0427	-0.2317	0.0269	-0.0387	-7.36
-5.37	-0.1233	0.0173	-0.0339	-0.1432	0.0229	-0.0295	-5.37
-3.29	-0.1657	0.0143	-0.072	-0.0770	0.0159	-0.0187	-3.29
-1.28	-0.1380	0.0115	0.0080	-0.0357	0.0066	-0.0072	-1.28
.76	.0301	.0088	.0028	-0.0168	.0008	.0100	.76
2.81	.0451	.0058	.0179	.0016	-0.0020	.0247	2.81
4.85	.1530	.0058	.0211	.0172	.0046	.0427	4.85
6.88	.1548	.0058	.0435	.0120	.0088	.0634	6.88
8.92	.2040	-0.0002	.0610	.0357	.0064	.0849	8.92
10.98	.2778	-0.0062	.0770	.0592	.0038	.1069	10.98
13.02	.3075	-0.0094	.1001	.0620	-0.0012	.1316	13.02
15.07	.3189	-0.0151	.1284	.0889	-0.0036	.1555	15.07
17.09	.3817	-0.0213	.1563	.1474	-0.0095	.1842	17.09
19.18	.4447	-0.0275	.1842	.1813	-0.0149	.2145	19.18
21.23	.6015	-0.0338	.2020	.3580	-0.0231	.2357	21.23

	Vertical tail, upper			Vertical tail, lower			
-9.47	-0.0020	0.0013	-0.0009	.0308	.0006	-0.0065	-9.47
-7.36	-0.0020	0.0013	-0.0009	.0212	.0006	-0.0048	-7.36
-5.37	-0.0020	0.0013	-0.0009	.0266	.0007	-0.0063	-5.37
-3.29	-0.0019	0.0007	-0.0009	.0124	.0007	-0.0009	-3.29
-1.28	.0048	.0007	-0.0018	.0124	.0007	-0.0009	-1.28
.76	.0048	.0007	-0.0018	.0091	.0007	.0017	.76
2.81	.0048	.0007	-0.0018	.0145	.0006	.0006	2.81
4.85	.0000	.0000	.0000	.0112	.0006	.0034	4.85
6.88	.0048	.0000	-0.0018	.0058	.0007	.0046	6.88
8.92	.0129	.0000	-0.0028	.0145	.0006	.0006	8.92
10.98	.0048	.0000	-0.0018	.0145	.0006	.0006	10.98
13.02	.0079	.0000	-0.0009	.0091	.0007	.0017	13.02
15.07	.0079	.0000	-0.0009	.0124	.0007	-0.0009	15.07
17.09	-0.0002	.0007	-0.0000	.0168	.0007	-0.0023	17.09
19.18	.0128	.0007	-0.0028	.0159	.0006	-0.0037	19.18
21.23	.0048	.0000	-0.0018	.0168	.0007	-0.0023	21.23

TABLE IV. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
DIFFERENT MODEL CONFIGURATIONS; $\beta = 0^\circ$ - Continued

(d) WFH, $M = 2.29$, $R = 1.87 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
	Wing, left			Wing, right			
-10.30	-0.2353	.0420	-0.1691	-0.3139	.0464	-0.1519	-10.30
-8.14	-0.2694	.0340	-0.1332	-0.4384	.0454	-0.1140	-8.14
-6.03	-0.2365	.0251	-0.0953	-0.3672	.0376	-0.0825	-6.03
-3.96	-0.1931	.0215	-0.0606	-0.3221	.0308	-0.0443	-3.96
-1.85	-0.1177	.0163	-0.0263	-0.2990	.0261	-0.0096	-1.85
.21	.0708	.0092	.0004	-0.0419	.0149	.0156	.21
2.28	.0937	.0092	.0387	-0.0160	.0141	.0514	2.28
4.38	.1998	.0016	.0698	.0223	.0113	.0869	4.38
6.45	.3049	-.0064	.0993	.1225	.0032	.1176	6.45
8.55	.3644	-.0137	.1320	.1615	-.0036	.1523	8.55
10.64	.3935	-.0213	.1663	.2142	-.0105	.1850	10.64
12.73	.4356	-.0288	.1974	.2639	-.0197	.2137	12.73
14.82	.4627	-.0364	.2301	.2846	-.0263	.2464	14.82
16.96	.5211	-.0462	.2604	.3402	-.0370	.2807	16.96
19.05	.5800	-.0561	.2903	.4599	-.0481	.3026	19.05
21.17	.6228	-.0678	.3202	.5503	-.0603	.3258	21.17
	Horizontal tail, left						
-10.30	-0.1786	.0554	-.0988				
-8.14	-0.1425	.0401	-.0696				
-6.03	-0.0758	.0378	-.0515				
-3.96	-0.0473	.0297	-.0380				
-1.85	-0.0176	.0202	-.0181				
.21	.0299	.0122	.0053				
2.28	.0699	.0030	.0310				
4.38	.1224	-.0102	.0621				
6.45	.1800	-.0275	.0956				
8.55	.2253	-.0420	.1261				
10.64	.2848	-.0551	.1548				
12.73	.3401	-.0668	.1817				
14.82	.3932	-.0799	.2036				
16.96	.4683	-.0956	.2303				
19.05	.5162	-.1090	.2563				
21.17	.5689	-.1253	.2809				

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39

TABLE IV. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
DIFFERENT MODEL CONFIGURATIONS; $\beta = 0^\circ$ - Continued

(e) WFFH, $M = 2.93$, $R = 1.87 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
	Wing, left			Wing, right			
-10.15	-0.2004	0.0294	-0.1260	-0.1887	0.0372	-0.1097	-10.15
-8.05	-0.2180	0.0251	-0.0953	-0.3821	0.0394	-0.0750	-8.05
-6.00	-0.1986	0.0209	-0.0654	-0.3865	0.0364	-0.0443	-6.00
-3.95	-0.0806	0.0149	-0.0467	-0.2298	0.0277	-0.0271	-3.95
-1.86	-0.0445	0.0107	-0.0191	-0.2186	0.0219	-0.0008	-1.86
.18	0.0592	0.0086	-0.0016	-0.1294	0.0167	0.0207	.18
2.23	0.0682	0.0064	0.0263	-0.1286	0.0155	0.0451	2.23
4.30	0.1689	0.0042	0.0455	-0.0648	0.0109	0.0670	4.30
6.38	0.2730	-0.0006	0.0666	0.0347	0.0103	0.0909	6.38
8.41	0.3253	-0.0050	0.0917	0.0297	0.0095	0.1216	8.41
10.51	0.3622	-0.0117	0.1192	0.0459	0.0038	0.1523	10.51
12.56	0.3809	-0.0183	0.1479	0.1151	-0.0028	0.1794	12.56
14.63	0.3995	-0.0247	0.1762	0.0939	-0.0078	0.2105	14.63
16.74	0.4637	-0.0338	0.2085	0.1851	-0.0171	0.2408	16.74
18.81	0.4878	-0.0406	0.2416	0.2395	-0.0259	0.2715	18.81
20.91	0.5858	-0.0499	0.2699	0.3448	-0.0354	0.2975	20.91
	Horizontal tail, left						
-10.15	-0.1958	0.0480	-0.0891				
-8.05	-0.1459	0.0404	-0.0721				
-6.00	-0.0772	0.0343	-0.0522				
-3.95	-0.0513	0.0281	-0.0363				
-1.86	-0.0038	0.0173	-0.0175				
.18	0.0253	0.0096	0.0040				
2.23	0.0888	-0.0011	0.0274				
4.30	0.1216	-0.0120	0.0541				
6.38	0.1601	-0.0261	0.0827				
8.41	0.2082	-0.0370	0.1056				
10.51	0.2393	-0.0495	0.1270				
12.56	0.2699	-0.0572	0.1453				
14.63	0.3299	-0.0694	0.1667				
16.74	0.3896	-0.0823	0.1922				
18.81	0.4481	-0.0963	0.2163				
20.91	0.5235	-0.1098	0.2419				

TABLE IV. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
DIFFERENT MODEL CONFIGURATIONS; $\beta = 0^\circ$ - Continued

(f) WFH, $M = 4.65$, $R = 2.28 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg	
	Wing, left				Wing, right			
-9.42	-.1869	.0233	-.0626	-.1785	.0320	-.0578	-9.42	
-7.35	-.1659	.0233	-.0455	-.2108	.0298	-.0399	-7.35	
-5.33	-.1444	.0203	-.0287	-.1911	.0271	-.0227	-5.33	
-3.29	-.0977	.0145	-.0132	-.1013	.0199	-.0156	-3.29	
-1.26	-.1133	.0145	.0064	-.0606	.0135	-.0036	-1.26	
.76	-.0162	.0117	.0124	-.0195	.0070	.0104	.76	
2.78	.0481	.0060	.0203	-.0217	.0018	.0287	2.78	
4.85	.1346	.0088	.0271	-.0281	.0026	.0475	4.85	
6.89	.1837	.0058	.0447	-.0156	.0059	.0658	6.89	
8.91	.1837	.0028	.0650	-.0104	.0099	.0869	8.91	
10.95	.2335	-.0032	.0829	-.0343	.0076	.1093	10.95	
12.98	.2635	-.0062	.1061	-.0349	.0024	.1324	12.98	
15.04	.2970	-.0123	.1312	-.0387	.0004	.1599	15.04	
17.08	.3384	-.0183	.1631	-.0485	-.0046	.1914	17.08	
19.15	.4515	-.0247	.1886	-.1330	-.0109	.2197	19.15	
21.19	.5155	-.0310	.2165	.1907	-.0137	.2488	21.19	
	Horizontal tail, left							
-9.42	-.1499	.0363	-.0556					
-7.35	-.1096	.0321	-.0456					
-5.33	-.0842	.0256	-.0335					
-3.29	-.0453	.0192	-.0196					
-1.26	-.0170	.0128	-.0062					
.76	.0172	.0108	.0088					
2.78	.0912	.0091	.0236					
4.85	.1014	.0025	.0385					
6.89	.1269	-.0038	.0502					
8.91	.1551	-.0102	.0641					
10.95	.1832	-.0208	.0815					
12.98	.2245	-.0315	.1013					
15.04	.2647	-.0443	.1248					
17.08	.3170	-.0593	.1548					
19.15	.3734	-.0720	.1818					
21.19	.4549	-.0825	.2069					

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TABLE IV. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
DIFFERENT MODEL CONFIGURATIONS; $\beta = 0^\circ$ - Continued

(g) WFHV, $M = 2.29$, $R = 1.87 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$, $\delta_s = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg	
	Wing, left				Wing, right			
-10.25	-.2780	.0386	-.1671	-.3993	.0462	-.1439	-10.25	
-8.10	-.2772	.0296	-.1296	-.3652	.0412	-.1148	-8.10	
-6.06	-.2930	.0225	-.0929	-.2972	.0356	-.0841	-6.06	
-3.96	-.2190	.0211	-.0578	-.3041	.0318	-.0471	-3.96	
-1.87	-.0552	.0125	-.0291	-.1041	.0183	-.0159	-1.87	
.20	.0698	.0090	.0004	-.0054	.0161	.0163	.20	
2.25	.0812	.0072	.0419	.0028	.0157	.0538	2.25	
4.39	.2138	.0014	.0694	.0403	.0129	.0889	4.39	
6.45	.3490	-.0084	.0969	.1550	.0028	.1188	6.45	
8.55	.3933	-.0137	.1304	.1927	-.0040	.1519	8.55	
10.64	.3925	-.0211	.1667	.2475	-.0092	.1878	10.64	
12.74	.4493	-.0306	.1958	.2836	-.0179	.2189	12.74	
14.83	.4763	-.0382	.2281	.3347	-.0267	.2496	14.83	
16.95	.5223	-.0477	.2616	.3997	-.0382	.2791	16.95	
19.07	.5646	-.0555	.2927	.4749	-.0479	.3038	19.07	
21.22	.6213	-.0653	.3214	.5808	-.0601	.3282	21.22	
	Horizontal tail, left				Horizontal tail, right			
-10.25	-.1946	.0535	-.0973	-.1511	.0447	-.1043	-10.25	
-8.10	-.1301	.0407	-.0694	-.0852	.0311	-.0767	-8.10	
-6.06	-.0914	.0356	-.0500	-.0385	.0237	-.0557	-6.06	
-3.96	-.0529	.0291	-.0376	-.0080	.0175	-.0435	-3.96	
-1.87	-.0214	.0185	-.0171	.0200	.0086	-.0229	-1.87	
.20	.0204	.0106	.0067	.0581	-.0025	.0007	.20	
2.25	.0665	.0015	.0321	.0960	-.0136	.0251	2.25	
4.39	.1116	-.0114	.0629	.1677	-.0274	.0538	4.39	
6.45	.1519	-.0273	.0968	.2443	-.0423	.0863	6.45	
8.55	.2012	-.0430	.1258	.3152	-.0573	.1139	8.55	
10.64	.2657	-.0560	.1537	.3812	-.0709	.1448	10.64	
12.74	.3261	-.0679	.1804	.4483	-.0848	.1700	12.74	
14.83	.3782	-.0795	.2023	.5030	-.0958	.1926	14.83	
16.95	.4625	-.0977	.2299	.5854	-.1121	.2213	16.95	
19.07	.5106	-.1122	.2556	.6319	-.1271	.2465	19.07	
21.22	.5611	-.1253	.2798	.6754	-.1383	.2712	21.22	
	Vertical tail, upper							
-10.25	-.0020	.0003	-.0048					
-8.10	.0019	.0003	-.0048					
-6.06	.0019	.0000	-.0048					
-3.96	.0030	-.0005	-.0044					
-1.87	.0040	.0000	-.0037					
.20	.0040	.0000	-.0037					
2.25	.0040	.0003	-.0037					
4.39	.0068	.0003	-.0044					
6.45	.0028	.0008	-.0011					
8.55	.0028	.0013	-.0011					
10.64	.0076	.0016	-.0016					
12.74	.0078	.0013	-.0016					
14.83	.0033	.0008	-.0021					
16.95	.0079	.0000	-.0016					
19.07	.0033	.0008	-.0021					
21.22	.0031	.0021	-.0021					

TABLE IV. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
DIFFERENT MODEL CONFIGURATIONS; $\beta = 0^\circ$ - Continued

(h) WFHV, $M = 2.98$, $R = 1.87 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_V = 0^\circ$, $\delta_B = 0^\circ$

α , deg	C_N	C_M	C_E	C_N	C_M	C_B	α , deg
	Wing, left			Wing, right			
-10.10	-0.1994	.0336	-0.1240	-0.5010	.0428	-0.0941	-10.10
-8.05	-0.1657	.0275	-0.0981	-0.3977	.0376	-0.0722	-8.05
-5.96	-0.1458	.0211	-0.0678	-0.3494	.0356	-0.0463	-5.96
-3.95	-0.1125	.0169	-0.0419	-0.3203	.0318	-0.0207	-3.95
-1.83	-0.0433	.0127	-0.0175	-0.2357	.0245	.0016	-1.83
.19	.0251	.0107	.0052	-0.1681	.0199	.0243	.19
2.25	.0509	.0086	.0287	-0.1476	.0183	.0463	2.25
4.34	.1869	.0040	.0447	-0.1179	.0121	.0714	4.34
6.39	.2722	.0016	.0666	-0.0178	.0092	.0933	6.39
8.43	.3083	-.0028	.0941	-0.0060	.0101	.1228	8.43
10.50	.3797	-.0095	.1184	.0289	.0066	.1551	10.50
12.56	.3821	-.0161	.1491	.0604	-.0004	.1818	12.56
14.65	.4563	-.0251	.1750	.1655	-.0092	.2069	14.65
16.72	.4830	-.0316	.2097	.2022	-.0175	.2388	16.72
18.84	.5231	-.0408	.2388	.2525	-.0239	.2668	18.84
20.91	.6031	-.0499	.2688	.3452	-.0376	.2971	20.91
	Horizontal tail, left			Horizontal tail, right			
-10.10	-0.1784	.0480	-.0914	-0.1277	.0382	-0.0950	-10.10
-8.05	-0.1236	.0420	-.0752	-0.0776	.0308	-0.0800	-8.05
-5.96	-0.0818	.0359	-.0546	-0.0188	.0265	-0.0604	-5.96
-3.95	-0.0503	.0297	-.0394	.0232	.0177	-0.0441	-3.95
-1.83	-0.0036	.0205	-.0202	.0297	.0089	-0.0241	-1.83
.19	.0339	.0111	.0011	.0701	-.0014	-.0022	.19
2.25	.0840	.0003	.0254	.1241	.0132	.0205	2.25
4.34	.1196	-.0120	.0527	.1701	.0251	.0470	4.34
6.39	.1631	-.0246	.0805	.2307	-.0368	.0727	6.39
8.43	.2002	-.0370	.1054	.2852	-.0472	.0965	8.43
10.50	.2289	-.0479	.1258	.3415	-.0561	.1148	10.50
12.56	.2832	-.0570	.1448	.3964	-.0663	.1332	12.56
14.65	.3299	-.0694	.1671	.4505	-.0782	.1559	14.65
16.72	.3960	-.0834	.1914	.5032	-.0916	.1802	16.72
18.84	.4575	-.0943	.2141	.5503	-.1034	.2039	18.84
20.91	.5142	-.1082	.2414	.6018	-.1166	.2303	20.91
	Vertical tail, upper						
-10.10	.0033	.0020	-.0050				
-8.05	.0065	.0020	-.0057				
-5.96	.0065	.0015	-.0057				
-3.95	.0079	.0010	-.0050				
-1.83	.0079	.0010	-.0050				
.19	.0129	.0005	-.0032				
2.25	.0129	.0005	-.0032				
4.34	.0129	.0005	-.0032				
6.39	.0131	.0000	-.0032				
8.43	.0152	.0000	-.0025				
10.50	.0152	.0005	-.0025				
12.56	.0152	.0005	-.0025				
14.65	.0065	.0005	-.0014				
16.72	.0065	.0005	-.0014				
18.84	.0065	.0010	-.0014				
20.91	.0078	.0005	-.0007				

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43

TABLE IV. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
DIFFERENT MODEL CONFIGURATIONS; $\beta = 0^\circ$ - Concluded

(i) WFHV, $M = 4.65$, $R = 2.28 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_V = 0^\circ$, $\delta_S = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left							
Wing, right							
-9.42	-0.2086	0.0229	-0.0606	-0.1528	0.0279	-0.0606	-9.42
-7.36	-0.1641	0.0231	-0.0451	-0.2343	0.0330	-0.0383	-7.36
-5.33	-0.1404	0.0201	-0.0263	-0.1927	0.0298	-0.0243	-5.33
-3.34	-0.1215	0.0173	-0.0116	-0.2022	0.0277	-0.0104	-3.34
-1.25	-0.0584	0.0145	0.0036	-0.0612	0.0163	-0.0036	-1.25
.76	.0351	0.0117	.0072	-0.0461	0.0076	.0116	.76
2.77	.0708	0.0088	.0187	-0.0714	0.0058	.0311	2.77
4.85	.1817	0.0086	.0243	-0.0060	0.0084	.0463	4.85
6.89	.1801	0.0115	.0447	-0.0596	0.0133	.0694	6.89
8.91	.1817	0.0028	.0646	-0.0395	0.0139	.0889	8.91
10.95	.2790	-0.0004	.0794	-0.0580	0.0070	.1069	10.95
13.00	.3089	-0.0034	.1025	-0.0130	0.0064	.1356	13.00
15.05	.3418	-0.0094	.1276	-0.0383	0.0004	.1579	15.05
17.08	.4083	-0.0155	.1579	-0.0491	-0.0014	.1922	17.08
19.18	.4958	-0.0219	.1842	-0.1328	-0.0076	.2197	19.18
21.20	.6029	-0.0281	.2050	.2625	-0.0117	.2452	21.20
Horizontal tail, left							
Horizontal tail, right							
-9.42	-0.1367	0.0337	-0.0542	-0.1070	0.0176	-0.0583	-9.42
-7.36	-0.0970	0.0295	-0.0446	-0.0916	0.0136	-0.0460	-7.36
-5.33	-0.0727	0.0254	-0.0327	-0.0375	0.0098	-0.0376	-5.33
-3.34	-0.0343	0.0190	-0.0193	-0.0042	0.0038	-0.0245	-3.34
-1.25	.0216	0.0151	-0.0061	.0094	-0.0021	-0.0085	-1.25
.76	.0323	0.0130	.0093	.0731	-0.0061	.0022	.76
2.77	.0639	0.0109	.0257	.1062	-0.0121	.0169	2.77
4.85	.1176	0.0048	.0373	.1379	-0.0202	.0322	4.85
6.89	.1168	-0.0016	.0509	.1713	-0.0262	.0438	6.89
8.91	.1449	-0.0080	.0644	.1936	-0.0344	.0567	8.91
10.95	.1918	-0.0205	.0812	.2253	-0.0423	.0734	10.95
13.00	.2164	-0.0291	.1027	.2940	-0.0524	.0908	13.00
15.05	.2541	-0.0439	.1247	.3225	-0.0644	.1133	15.05
17.08	.2978	-0.0566	.1553	.3892	-0.0766	.1419	17.08
19.18	.3461	-0.0649	.1790	.4555	-0.0885	.1663	19.18
21.20	.4054	-0.0755	.2031	.5231	-0.0983	.1906	21.20
Vertical tail, upper							
-9.42	-0.0037	0.0020	-0.0016				
-7.36	-0.0037	0.0020	-0.0016				
-5.33	-0.0037	0.0013	-0.0016				
-3.34	.0008	0.0013	-0.0025				
-1.25	.0009	0.0007	-0.0025				
.76	.0009	0.0007	-0.0025				
2.77	.0009	0.0007	-0.0025				
4.85	.0009	0.0007	-0.0025				
6.89	.0009	0.0007	-0.0025				
8.91	.0048	0.0007	-0.0018				
10.95	.0054	0.0007	-0.0034				
13.00	.0054	0.0007	-0.0034				
15.05	.0128	0.0007	-0.0028				
17.08	.0048	0.0007	-0.0018				
19.18	.0054	0.0007	-0.0034				
21.20	.0128	0.0007	-0.0028				

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 TABLE V. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
 DIFFERENT MODEL CONFIGURATIONS; $\beta = -6.1^\circ$

(a) WFWV, $M = 2.29$, $R = 1.87 \times 10^6$, $\delta_V = 0^\circ$, $\delta_S = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg	
	Wing, left				Wing, right			
-10.27	-0.3614	0.0348	-0.1607	-0.3486	0.0404	-0.1443	-10.27	
-8.15	-0.3079	0.0298	-0.1300	-0.3941	0.0362	-0.1124	-8.15	
-6.08	-0.2497	0.0227	-0.0953	-0.2924	0.0281	-0.0817	-6.08	
-3.99	-0.1599	0.0141	-0.0626	-0.1729	0.0199	-0.0494	-3.99	
-1.90	-0.0564	0.0107	-0.0303	-0.1328	0.0131	-0.0148	-1.90	
.22	-0.0106	0.0090	0.0076	-0.0068	0.0084	0.0120	.22	
2.27	.0624	.0036	.0387	-0.0824	0.0119	.0622	2.27	
4.36	.2078	-0.0040	.0630	.0168	.0040	.0929	4.36	
6.46	.2838	-0.0097	.0961	.0899	-0.0072	.1276	6.46	
8.55	.3867	-0.0175	.1240	.1430	-0.0143	.1603	8.55	
10.68	.4661	-0.0253	.1587	.1803	-0.0229	.1922	10.68	
12.79	.5185	-0.0348	.1974	.2702	-0.0330	.2149	12.79	
14.88	.5640	-0.0408	.2309	.3155	-0.0422	.2396	14.88	
17.01	.6031	-0.0505	.2715	.3767	-0.0517	.2648	17.01	
19.12	.6817	-0.0625	.3034	.4457	-0.0577	.2855	19.12	
21.19	.7589	-0.0726	.3341	.5040	-0.0672	.3082	21.19	

	Vertical tail, upper			Vertical tail, lower			
-10.27	.3074	-0.0427	.1390	.1822	-0.0279	.0714	-10.27
-8.15	.2900	-0.0402	.1287	.1745	-0.0312	.0705	-8.15
-6.08	.2803	-0.0373	.1184	.1815	-0.0319	.0725	-6.08
-3.99	.2562	-0.0358	.1083	.1892	-0.0308	.0757	-3.99
-1.90	.2416	-0.0355	.0991	.2021	-0.0301	.0794	-1.90
.22	.2201	-0.0352	.0943	.2177	-0.0280	.0856	.22
2.27	.2119	-0.0353	.0883	.2338	-0.0277	.0916	2.27
4.36	.1949	-0.0353	.0637	.2555	-0.0271	.1024	4.36
6.46	.1884	-0.0370	.0633	.2744	-0.0275	.1104	6.46
8.55	.1865	-0.0417	.0791	.2924	-0.0273	.1215	8.55
10.68	.1896	-0.0482	.0782	.3105	-0.0277	.1323	10.68
12.79	.1916	-0.0541	.0787	.3270	-0.0277	.1419	12.79
14.88	.1958	-0.0613	.0858	.3357	-0.0279	.1454	14.88
17.01	.2021	-0.0616	.0927	.3446	-0.0264	.1530	17.01
19.12	.1464	-0.0396	.0784	.3571	-0.0251	.1567	19.12
21.19	.1294	-0.0325	.0670	.3652	-0.0223	.1587	21.19

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45

TABLE V.- SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
DIFFERENT MODEL CONFIGURATIONS; $\beta = -6.1^0$ - Continued

(b) WFFVv, $M = 2.98$, $R = 1.87 \times 10^6$, $\delta_v = 0^0$, $\delta_s = 0^0$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-10.06	-0.2391	.0283	-.1252	-.3951	.0376	-.0965	-10.06
-8.09	-.1725	.0241	-.1033	-.3929	.0338	-.0778	-8.09
-6.00	-.1376	.0175	-.0762	-.3438	.0294	-.0522	-6.00
-3.92	-.0507	.0109	-.0550	-.2529	.0243	-.0255	-3.92
-1.86	-.0172	.0088	-.0279	-.2222	.0179	-.0008	-1.86
.18	.0552	.0066	-.0064	-.1336	.0125	.0195	.18
2.25	.0999	.0044	.0187	-.1643	.0147	.0534	2.25
4.32	.2044	.0020	.0387	-.1177	.0101	.0770	4.32
6.37	.2954	-.0028	.0630	-.0527	.0030	.0981	6.37
8.44	.3141	-.0074	.0925	-.0622	-.0002	.1244	8.44
10.50	.4272	-.0147	.1172	.0225	-.0101	.1463	10.50
12.56	.4687	-.0191	.1487	.0507	-.0165	.1711	12.56
14.66	.4986	-.0261	.1862	.0979	-.0209	.1950	14.66
16.73	.5281	-.0330	.2237	.1047	-.0245	.2217	16.73
18.85	.6647	-.0430	.2484	.2461	-.0330	.2396	18.85
20.93	.7317	-.0527	.2823	.3313	-.0404	.2632	20.93

	Vertical tail, upper			Vertical tail, lower			
-10.06	.2928	-.0623	.1255	.1439	-.0321	.0555	-10.06
-8.09	.2756	-.0581	.1195	.1395	-.0314	.0606	-8.09
-6.00	.2553	-.0541	.1122	.1537	-.0310	.0634	-6.00
-3.92	.2380	-.0474	.1041	.1684	-.0314	.0705	-3.92
-1.86	.2231	-.0427	.0973	.1787	-.0315	.0785	-1.86
.18	.2116	-.0381	.0943	.2062	-.0319	.0913	.18
2.25	.1935	-.0345	.0881	.2159	-.0328	.1027	2.25
4.32	.1801	-.0325	.0817	.2392	-.0362	.1112	4.32
6.37	.1622	-.0294	.0755	.2562	-.0398	.1186	6.37
8.44	.1481	-.0289	.0709	.2780	-.0437	.1260	8.44
10.50	.1381	-.0299	.0661	.3076	-.0483	.1311	10.50
12.56	.1442	-.0338	.0594	.3217	-.0529	.1405	12.56
14.66	.1405	-.0363	.0596	.3453	-.0568	.1491	14.66
16.73	.1179	-.0327	.0583	.3653	-.0600	.1596	16.73
18.85	.1013	-.0327	.0525	.3955	-.0649	.1693	18.85
20.93	.0983	-.0343	.0512	.4221	-.0690	.1764	20.93

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46

TABLE V. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
DIFFERENT MODEL CONFIGURATIONS; $\beta = -6.1^\circ$ - Continued

(c) WFFVv, $M = 4.85$, $R = 2.28 \times 10^6$, $\delta_v = 0^\circ$, $\delta_s = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
	Wing, left			Wing, right			
-9.47	-0.2230	.0199	-0.0734	-0.0479	.0101	-0.0658	-9.47
-7.32	-0.2172	.0141	-0.0490	-0.1769	.0171	-0.0391	-7.32
-5.37	-0.1719	.0113	-0.0335	-0.1125	.0131	-0.0287	-5.37
-3.31	-0.1266	.0086	-0.0183	-0.0503	.0094	-0.0203	-3.31
-1.25	-0.1027	.0058	0.0008	.0166	.0056	-0.0076	-1.25
.77	-0.1189	.0058	.0199	-0.0168	.0008	.0100	.77
2.79	-0.0152	.0030	.0299	.0271	-0.0056	.0235	2.79
4.86	.1400	.0028	.0311	.0207	-0.0046	.0423	4.86
6.90	.2529	.0026	.0383	.0158	-0.0068	.0606	6.90
8.92	.2563	-.0032	.0606	.0349	-0.0094	.0782	8.92
10.98	.3323	-.0064	.0790	.0319	-0.0113	.0989	10.98
13.00	.3855	-.0066	.1005	.0764	-0.0175	.1148	13.00
15.05	.4649	-.0127	.1208	.1278	-0.0205	.1372	15.05
17.13	.4836	-.0159	.1555	.1109	-0.0249	.1679	17.13
19.18	.5718	-.0219	.1822	.1671	-0.0308	.1946	19.18
21.25	.7098	-.0286	.2062	.2300	-0.0366	.2277	21.25

	Vertical tail, upper			Vertical tail, lower			
-9.47	.1921	-0.0491	.0851	.1806	-0.0284	.0250	-9.47
-7.32	.1898	-0.0464	.0780	.1813	-0.0286	.0307	-7.32
-5.37	.1808	-0.0443	.0739	.1761	-0.0286	.0373	-5.37
-3.31	.1696	-0.0424	.0686	.1806	-0.0288	.0407	-3.31
-1.25	.1650	-0.0402	.0665	.2053	-0.0299	.0378	-1.25
.77	.1570	-.0383	.0658	.1981	-0.0308	.0427	.77
2.79	.1426	-.0355	.0622	.2198	-0.0339	.0421	2.79
4.86	.1380	-.0321	.0603	.2161	-0.0376	.0484	4.86
6.90	.1324	-.0280	.0548	.2261	-0.0413	.0492	6.90
8.92	.1216	-.0247	.0500	.2401	-0.0441	.0535	8.92
10.98	.1100	-.0206	.0417	.2562	-0.0463	.0595	10.98
13.00	.0852	-.0159	.0392	.2794	-0.0494	.0762	13.00
15.05	.0716	-.0118	.0392	.3093	-0.0544	.0816	15.05
17.13	.0552	-.0113	.0314	.3349	-0.0576	.0893	17.13
19.18	.0496	-.0121	.0257	.3509	-0.0625	.0998	19.18
21.25	.0462	-.0114	.0211	.4041	-0.0743	.1152	21.25

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47

TABLE V. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
DIFFERENT MODEL CONFIGURATIONS; $\beta = -6.1^\circ$ - Continued

(d) WFH, $M = 2.29$, $R = 1.87 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
	Wing, left			Wing, right			
-10.25	-2627	.0406	.1667	-5846	.0444	.1324	-10.25
-8.14	-3329	.0332	.1244	-4577	.0412	.1089	-8.14
-6.03	-2296	.0229	.0921	-3546	.0350	.0770	-6.03
-3.99	-1707	.0177	.0578	-3297	.0286	.0415	-3.99
-1.90	-0536	.0125	.0275	-1789	.0179	.0108	-1.90
.21	.0070	.0090	.0080	.0415	.0147	.0152	.21
2.28	.1340	.0054	.0319	.0397	.0167	.0590	2.28
4.35	.1777	-.0002	.0658	-.0457	.0109	.0961	4.35
6.46	.2694	-.0080	.0985	.0566	-.0028	.1276	6.46
8.54	.4021	-.0157	.1236	.1968	-.0097	.1535	8.54
10.62	.4677	-.0235	.1603	.2034	-.0199	.1858	10.62
12.71	.5042	-.0310	.1998	.2369	-.0267	.2153	12.71
14.81	.5495	-.0388	.2333	.2812	-.0340	.2396	14.81
16.93	.5871	-.0485	.2727	.2988	-.0446	.2672	16.93
19.05	.6799	-.0587	.3034	.4130	-.0533	.2855	19.05
21.18	.7285	-.0702	.3377	.4398	-.0583	.3094	21.18
	Horizontal tail, left						
-10.25	-2557	.0706	.1355				
-8.14	-1864	.0629	.1169				
-6.03	-1561	.0564	.0926				
-3.99	-1142	.0473	.0759				
-1.90	-0778	.0343	.0499				
.21	-0190	.0199	.0188				
2.28	.0419	.0056	.0167				
4.35	.0952	-.0102	.0513				
6.46	.1615	-.0259	.0861				
8.54	.2018	-.0391	.1142				
10.62	.2615	-.0521	.1428				
12.71	.3174	-.0652	.1729				
14.81	.3726	-.0809	.1988				
16.93	.4523	-.0967	.2249				
19.05	.5066	-.1084	.2481				
21.18	.5639	-.1227	.2723				

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48

TABLE V-- SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
DIFFERENT MODEL CONFIGURATIONS; $\beta = -6.1^\circ$ - Continued

(e) WFFH, $M = 2.98$, $R = 1.87 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
	Wing, left			Wing, right			
-10.14	-0.2379	0.0314	0.1256	-0.5002	0.0430	-0.0925	-10.14
-8.05	-0.1731	0.0253	0.1045	-0.3684	0.0366	-0.0805	-8.05
-6.00	-0.0668	0.0191	0.0801	-0.3173	0.0324	-0.0530	-6.00
-3.93	-0.1021	0.0149	0.0490	-0.3584	0.0302	-0.0207	-3.93
-1.89	-0.0321	0.0086	0.0247	-0.2533	0.0227	0.0028	-1.89
.18	0.0379	0.0064	0.0020	-0.1693	0.0175	0.0227	.18
2.23	0.0822	0.0064	0.0223	-0.1434	0.0207	0.0510	2.23
4.31	0.1659	0.0020	0.0427	-0.1512	0.0175	0.0782	4.31
6.36	0.2732	-0.0006	0.0666	-0.0511	0.0076	0.0969	6.36
8.41	0.3119	-0.0072	0.0957	-0.0407	0.0040	0.1232	8.41
10.49	0.4214	-0.0139	0.1196	0.0265	-0.0050	0.1483	10.49
12.57	0.4108	-0.0183	0.1563	0.0038	-0.0099	0.1774	12.57
14.64	0.4924	-0.0253	0.1878	0.1201	-0.0181	0.1958	14.64
16.71	0.4902	-0.0318	0.2309	0.0971	-0.0231	0.2253	16.71
18.81	0.6266	-0.0416	0.2580	0.2144	-0.0310	0.2448	18.81
20.91	0.6392	-0.0481	0.2967	0.2419	-0.0372	0.2688	20.91
	Horizontal tail, left						
-10.14	-0.2114	0.0557	-0.1108				
-8.05	-0.1768	0.0543	-0.1004				
-6.00	-0.1437	0.0498	-0.0843				
-3.93	-0.1006	0.0374	-0.0603				
-1.89	-0.0485	0.0265	-0.0353				
.18	0.0112	0.0159	-0.0097				
2.23	0.0621	0.0034	0.0142				
4.31	0.1255	-0.0073	0.0379				
6.36	0.1571	-0.0198	0.0631				
8.41	0.1978	-0.0306	0.0900				
10.49	0.2341	-0.0479	0.1208				
12.57	0.2800	-0.0586	0.1427				
14.64	0.3421	-0.0711	0.1654				
16.71	0.4024	-0.0851	0.1909				
18.81	0.4497	-0.0975	0.2170				
20.91	0.5233	-0.1098	0.2419				

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TABLE V. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
DIFFERENT MODEL CONFIGURATIONS; $\beta = -6.1^\circ$ - Continued

(f) WFH, $M = 4.65$, $R = 2.28 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left							
-9.42	-0.1540	0.0233	-0.0778	0.0028	0.0155	-0.0642	-9.42
-7.33	-0.1996	0.0203	-0.0526	-0.1787	0.0231	-0.0371	-7.33
-5.30	-0.1755	0.0173	-0.0339	-0.2124	0.0245	-0.0191	-5.30
-3.29	-0.0792	0.0117	-0.0207	-0.0732	0.0163	-0.0148	-3.29
-1.28	-0.0800	0.0117	-0.0004	-0.0820	0.0173	0.0020	-1.28
.76	-0.0126	0.0060	0.0124	-0.0415	0.0078	0.0159	.76
2.80	-0.0381	0.0088	0.0335	-0.0217	0.0018	0.0287	2.80
4.83	.0961	0.088	0.0383	-0.0281	0.0026	0.0475	4.83
6.89	.0239	0.0056	0.0423	-0.0333	0.0006	0.0662	6.89
8.89	.02812	0.0056	0.0602	-0.0140	-0.0022	0.0837	8.89
10.95	.03333	0.0024	0.0801	0.0299	-0.0052	0.1001	10.95
12.98	.0381	-0.0008	0.1021	0.0271	-0.0074	0.1208	12.98
15.02	.04679	-0.0040	0.1224	0.0509	-0.0099	0.1428	15.02
17.08	.05347	-0.0103	0.1527	0.0606	-0.0147	0.1746	17.08
19.15	.05758	-0.0135	0.1846	0.0925	-0.0171	0.2030	19.15
21.19	.07633	-0.0203	0.2038	0.2266	-0.0277	0.2285	21.19
Horizontal tail, left							
-9.42	-0.1473	0.0405	-0.0634				
-7.33	-0.1226	0.0363	-0.0517				
-5.30	-0.0982	0.0320	-0.0395				
-3.29	-0.0621	0.0256	-0.0273				
-1.28	-0.0182	0.0193	-0.0161				
.76	.0156	0.0173	-0.0030				
2.80	.0557	0.0155	.0115				
4.83	.0884	0.0069	.0324				
6.89	.1329	-0.0059	.0479				
8.89	.1533	-0.0123	.0623				
10.95	.1852	-0.0208	.0774				
12.98	.2228	-0.0294	.0957				
15.02	.2605	-0.0378	.1135				
17.08	.3208	-0.0484	.1378				
19.15	.3619	-0.0569	.1632				
21.19	.4060	-0.0653	.1899				

TABLE V. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS

FOR DIFFERENT MODEL CONFIGURATIONS; $\beta = -6.1^\circ$ - Continued(g) WFHV, $M = 2.29$, $R = 1.87 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$, $\delta_s = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-10.24	-0.3313	0.0404	-0.1599	-0.3963	0.0462	-0.1416	-10.24
-8.09	-0.3163	0.0279	-0.1248	-0.4063	0.0384	-0.1085	-8.09
-6.06	-0.2599	0.0209	-0.0917	-0.3408	0.0328	-0.0805	-6.06
-3.98	-0.1584	0.0159	-0.0610	-0.2202	0.0245	-0.0471	-3.98
-1.89	-0.0536	0.0125	-0.0275	-0.1326	0.0169	-0.0132	-1.89
.22	-0.0207	0.0090	0.0108	-0.0915	0.0157	0.0179	.22
2.27	.0634	0.0054	0.0399	-0.0560	0.0169	0.0582	2.27
4.36	.1791	-0.0002	0.0670	-0.0291	0.0105	0.0965	4.36
6.45	.2692	-0.0080	0.0981	0.0550	0.0010	0.1276	6.45
8.54	.3889	-0.0155	0.1264	0.1254	-0.0082	0.1611	8.54
10.61	.4804	-0.0235	0.1575	0.2214	-0.0181	0.1886	10.61
12.77	.4741	-0.0308	0.2022	0.2080	-0.0261	0.2177	12.77
14.83	.5485	-0.0388	0.2329	0.3125	-0.0364	0.2392	14.83
16.92	.6013	-0.0485	0.2711	0.3588	-0.0456	0.2652	16.92
19.03	.6635	-0.0583	0.3038	0.4140	-0.0533	0.2863	19.03
21.16	.7441	-0.0704	0.3365	0.4884	-0.0611	0.3110	21.16
Horizontal tail, left				Horizontal tail, right			
-10.24	-0.2493	0.0759	-0.1379	-0.1012	0.0336	-0.0789	-10.24
-8.09	-0.1531	0.0656	-0.1180	-0.0489	0.0261	-0.0552	-8.09
-6.06	-0.1535	0.0578	-0.0944	-0.0249	0.0199	-0.0398	-6.06
-3.98	-0.1100	0.0487	-0.0766	0.0018	0.0088	-0.0202	-3.98
-1.89	-0.0784	0.0356	-0.0498	0.0347	-0.0012	0.0030	-1.89
.22	-0.0166	0.0185	-0.0178	0.0976	-0.0111	0.0238	.22
2.27	.0295	0.0042	0.0165	0.1587	-0.0236	0.0483	2.27
4.36	.0910	-0.0115	0.0520	0.2255	-0.0361	0.0758	4.36
6.45	.1507	-0.0272	0.0865	0.2723	-0.0510	0.1056	6.45
8.54	.2100	-0.0431	0.1175	0.3489	-0.0673	0.1323	8.54
10.61	.2437	-0.0534	0.1430	0.4251	-0.0835	0.1607	10.61
12.77	.3229	-0.0678	0.1722	0.4934	-0.0947	0.1830	12.77
14.83	.3677	-0.0821	0.1992	0.5397	-0.1020	0.2029	14.83
16.92	.4501	-0.0977	0.2235	0.6056	-0.1145	0.2277	16.92
19.03	.4938	-0.1096	0.2475	0.6555	-0.1257	0.2519	19.03
21.16	.5595	-0.1240	0.2726	0.7199	-0.1420	0.2781	21.16
Vertical tail, upper							
-10.24	.3019	-0.0412	0.1346				
-8.09	.2817	-0.0388	0.1266				
-6.06	.2643	-0.0363	0.1161				
-3.98	.2417	-0.0348	0.1069				
-1.89	.2257	-0.0340	0.0970				
.22	.2088	-0.0342	0.0924				
2.27	.2019	-0.0347	0.0872				
4.36	.1916	-0.0348	0.0821				
6.45	.1842	-0.0366	0.0784				
8.54	.1837	-0.0412	0.0778				
10.61	.1845	-0.0464	0.0775				
12.77	.1867	-0.0523	0.0782				
14.83	.1912	-0.0590	0.0837				
16.92	.1935	-0.0594	0.0924				
19.03	.1398	-0.0399	0.0810				
21.16	.1269	-0.0324	0.0677				

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51

TABLE V. - SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
DIFFERENT MODEL CONFIGURATIONS; $\beta = -6.1^\circ$ - Continued

(h) WFFHV, $M = 2.98$, $R = 1.87 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_V = 0^\circ$, $\delta_S = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg	
	Wing, left				Wing, right			
-10.18	-0.2541	0.0334	-0.1232	-0.4637	0.0400	-0.0961	-10.18	
-8.05	-0.2028	0.0273	-0.0977	-0.4035	0.0374	-0.0774	-8.05	
-6.00	-0.1183	0.0213	-0.0758	-0.3181	0.0302	-0.0546	-6.00	
-3.97	-0.0674	0.0171	-0.0506	-0.3392	0.0275	-0.0215	-3.97	
-1.88	-0.0469	0.0127	-0.0203	-0.2533	0.0227	-0.0228	-1.88	
.20	.0193	.0086	.0008	.1693	.0175	.0227	.20	
2.23	.0816	.0086	.0223	.1410	.0185	.0522	2.23	
4.30	.2006	.0062	.0407	.1131	.0169	.0782	4.30	
6.40	.2724	.0016	.0666	.0487	.0054	.0981	6.40	
8.43	.3474	-.0052	.0937	.0050	.0034	.1212	8.43	
10.51	.4059	-.0097	.1236	.0088	-.0046	.1487	10.51	
12.57	.4487	-.0163	.1559	.0728	-.0115	.1711	12.57	
14.63	.5098	-.0231	.1870	.1201	-.0181	.1954	14.63	
16.72	.5443	-.0298	.2277	.1669	-.0245	.2201	16.72	
18.81	.6250	-.0392	.2580	.2317	-.0312	.2436	18.81	
20.94	.7076	-.0466	.2895	.2964	-.0380	.2672	20.94	
	Horizontal tail, left				Horizontal tail, right			
-10.18	-0.2218	0.0573	-0.1123	-0.0994	0.0310	-0.0755	-10.18	
-8.05	-0.1766	0.0543	-0.1005	-0.0463	0.0192	-0.0473	-8.05	
-6.00	-0.1465	0.0513	-0.0852	-0.0024	0.0134	-0.0300	-6.00	
-3.97	-0.0920	0.0391	-0.0632	0.0281	0.0074	-0.0186	-3.97	
-1.88	-0.0345	0.0250	-0.0358	0.0629	0.0014	-0.0012	-1.88	
.20	.0036	.0157	-.0100	.1060	-.0087	.0166	.20	
2.23	.0543	.0034	.0139	.1327	-.0191	.0364	2.23	
4.30	.1120	-.0074	.0385	.1858	-.0327	.0581	4.30	
6.40	.1621	-.0182	.0624	.2595	-.0460	.0843	6.40	
8.43	.1978	-.0306	.0900	.3062	-.0577	.1068	8.43	
10.51	.2405	-.0448	.1211	.3635	-.0650	.1234	10.51	
12.57	.2786	-.0556	.1428	.4126	-.0740	.1404	12.57	
14.63	.3279	-.0694	.1656	.4461	-.0844	.1616	14.63	
16.72	.3958	-.0834	.1914	.5211	-.0961	.1839	16.72	
18.81	.4533	-.0942	.2159	.5746	-.1078	.2081	18.81	
20.94	.5190	-.1066	.2403	.6247	-.1241	.2362	20.94	
	Vertical tail, upper							
-10.18	.2963	-.0626	.1252					
-8.05	.2741	-.0576	.1193					
-6.00	.2606	-.0527	.1106					
-3.97	.2408	-.0479	.1035					
-1.88	.2221	-.0424	.0970					
.20	.2114	-.0389	.0943					
2.23	.2005	-.0343	.0872					
4.30	.1834	-.0319	.0812					
6.40	.1661	-.0299	.0752					
8.43	.1482	-.0289	.0709					
10.51	.1414	-.0306	.0654					
12.57	.1470	-.0332	.0590					
14.63	.1392	-.0363	.0594					
16.72	.1198	-.0321	.0569					
18.81	.0971	-.0322	.0528					
20.94	.0982	-.0332	.0509					

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52

TABLE V.- SURFACE LOADING CHARACTERISTICS AT VARIOUS MACH NUMBERS FOR
DIFFERENT MODEL CONFIGURATIONS; $\beta = -6.1^\circ$ - Concluded

(i) WFHV, $M = 4.65$, $R = 2.28 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$, $\delta_s = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
	Wing, left			Wing, right			
-9.42	-0.1737	.0231	-0.0734	-0.0469	.0195	-0.0614	-9.42
-7.36	-0.1498	.0201	-0.0546	-0.0805	.0263	-0.0391	-7.36
-5.30	-0.1258	.0173	-0.0359	-0.1877	.0237	-0.0223	-5.30
-3.29	-0.1011	.0115	-0.0171	-0.0981	.0197	-0.0132	-3.29
-1.28	-0.0874	.0115	.0028	-0.0834	.0169	-0.0004	-1.28
.76	.0152	.0088	.0120	-0.0156	.0040	.0124	.76
2.78	-0.0142	.0088	.0323	-0.0459	.0022	.0295	2.78
4.83	.0716	.0115	.0411	-0.0521	.0032	.0482	4.83
6.87	.2288	.0113	.0419	-0.0572	.0010	.0666	6.87
8.91	.3027	.0054	.0582	-0.0381	-0.0016	.0841	8.91
10.96	.3327	.0024	.0813	-0.0189	-0.0042	.1013	10.96
12.98	.4334	-.0010	.0985	.0511	-.0078	.1184	12.98
15.03	.5347	-.0044	.1152	.0538	-.0127	.1435	15.03
17.09	.5568	-.0103	.1519	.0600	-.0147	.1727	17.09
19.15	.6440	-.0135	.1786	.1416	-.0211	.1982	19.15
21.23	.7104	-.0197	.2085	.1548	-.0288	.2317	21.23
	Horizontal tail, left			Horizontal tail, right			
-9.42	-0.1736	.0378	-0.0624	-0.0725	.0138	-0.0452	-9.42
-7.36	-0.1128	.0339	-0.0520	-0.0475	.0099	-0.0345	-7.36
-5.30	-0.0894	.0317	-0.0404	-0.0664	.0058	-0.0226	-5.30
-3.29	-0.0537	.0255	-0.0279	-0.0220	.0020	-0.0123	-3.29
-1.28	-0.0297	.0212	-0.0161	-0.0741	-0.0042	-0.0033	-1.28
.76	.0042	.0193	-0.0042	.1082	-0.0101	.0113	.76
2.78	.0513	.0173	.0099	.1397	-0.0180	.0266	2.78
4.83	.0942	.0090	.0308	.1830	-0.0242	.0367	4.83
6.87	.1180	.0005	.0470	.1982	-0.0282	.0485	6.87
8.91	.1479	-.0099	.0603	.2206	-0.0363	.0615	8.91
10.96	.1719	-.0184	.0764	.2719	-0.0444	.0759	10.96
12.98	.2142	-.0269	.0916	.2828	-0.0544	.0959	12.98
15.03	.2245	-.0333	.1114	.2916	-0.0664	.1196	15.03
17.09	.2948	-.0437	.1359	.3956	-0.0806	.1440	17.09
19.15	.3441	-.0541	.1595	.4507	-0.0946	.1741	19.15
21.23	.3892	-.0669	.1840	.5237	-.1107	.2046	21.23
	Vertical tail, upper						
-9.42	.2105	-.0499	.0817				
-7.36	.1887	-.0464	.0805				
-5.30	.1865	-.0445	.0736				
-3.29	.1720	-.0424	.0697				
-1.28	.1686	-.0404	.0651				
.76	.1627	-.0376	.0656				
2.78	.1566	-.0355	.0658				
4.83	.1551	-.0321	.0624				
6.87	.1378	-.0288	.0544				
8.91	.1251	-.0247	.0486				
10.96	.1134	-.0208	.0401				
12.98	.0851	-.0146	.0395				
15.03	.0717	-.0119	.0392				
17.09	.0611	-.0106	.0312				
19.15	.0532	-.0114	.0243				
21.23	.0560	-.0114	.0195				

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REF ID: A6512
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53

TABLE VI. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS
FOR CONFIGURATION, WFFV; $\beta = 0^\circ$, $\delta_y = 0^\circ$

(a) $M = 2.29$, $R = 0.51 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_S = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-9.95 -7.90 -5.89 -3.85 -1.83 .17 2.17 4.22 6.25 8.26 10.31 12.33 14.33 16.36 18.38 20.42	.1105 .1480 .1941 .1879 .2092 .3127 .3745 .3083 .4627 .5002 .6396 .6761 .7090 .6956 .7321 .6663	.0398 .0332 .0267 .0199 .0199 .0131 .0197 .0197 .0127 .0062 .0076 .0145 .0078 .0277 .0344 .0476	-.1830 .1551 -.1216 -.0805 -.0371 -.0124 .0219 .0662 .0933 .1216 .1352 .1599 .1886 .2229 .2508 .2895	-.6165 -.7533 -.6568 -.6741 -.5219 -.3494 -.2828 -.1917 -.1534 -.1701 -.2427 -.2666 -.2323 -.0115 -.0235 -.0308 -.0394	.0615 .0661 .0589 .0537 .0456 .0292 .0153 .0147 .0088 .0038 -.0002 -.0054 -.0115 -.0235 -.0308 -.0394	-.1148 -.0722 -.0403 -.0028 .0259 .0451 .0714 .0977 .1320 .1691 .2093 .2432 .2723 .3070 .3334 .3521	-9.95 -7.90 -5.89 -3.85 -1.83 .17 2.17 4.22 6.25 8.26 10.31 12.33 14.33 16.36 18.38 20.42
Horizontal tail, left				Horizontal tail, right			
-9.95 -7.90 -5.89 -3.85 -1.83 .17 2.17 4.22 6.25 8.26 10.31 12.33 14.33 16.36 18.38 20.42	-.2525 -.1984 -.1222 -.0683 -.0413 .0036 .0725 .1703 .1906 .2477 .2810 .2988 .2900 .3754 .3645 .3804	.0476 .0384 .0339 .0241 .0097 -.0049 -.0046 .0185 -.0284 .0428 -.0670 	-.0874 -.0606 -.0451 -.0307 -.0079 -.0129 .0374 .0622 .0945 .1214 .1573 .1874 .2151 .2450 .2722 .3009	-.1848 -.1034 -.0449 -.0279 -.0499 .0882 .1429 .1513 .2717 .3477 .4212 .5010 .5569 .6040 .6539 .7108	.0362 .0320 .0229 .0184 .0044 .0001 -.0137 -.0273 .0410 -.0547 -.0733 -.0876 	-.1004 -.0756 -.0591 -.0411 -.0234 -.0001 .0248 .0558 .0794 .1054 .1358 .1626 .1914 .2194 .2482 .2726	-9.95 -7.90 -5.89 -3.85 -1.83 .17 2.17 4.22 6.25 8.26 10.31 12.33 14.33 16.36 18.38 20.42
Vertical tail, upper				Vertical tail, lower			
-9.95 -7.90 -5.89 -3.85 -1.83 .17 2.17 4.22 6.25 8.26 10.31 12.33 14.33 16.36 18.38 20.42	.0289 .0180 .0180 .0180 .0180 .0180 .0291 .0289 .0289 .0289 .0401 .0403 .0291 .0179 .0179 .0289	.0015 .0015 .0015 .0015 .0015 .0015 .0015 .0015 .0015 .0015 .0015 .0015 .0015 .0015 .0015 .0015	-.0060 -.0021 -.0021 -.0021 -.0021 -.0021 -.0060 -.0060 -.0060 -.0060 -.0101 -.0101 -.0060 -.0021 -.0021 -.0060	-.0259 -.0337 -.0337 -.0337 -.0414 -.0539 -.0539 -.0533 -.0535 -.0458 -.0336 -.0213 -.0462 -.0458 -.0456 -.0456	.0065 .0065 .0065 .0065 .0066 .0068 .0068 .0068 .0068 .0066 .0065 .0063 .0068 .0066 .0066 .0066	.0193 .0256 .0256 .0256 .0321 .0350 .0350 .0347 .0347 .0284 .0256 .0228 .0287 .0284 .0284 .0284	-9.95 -7.90 -5.89 -3.85 -1.83 .17 2.17 4.22 6.25 8.26 10.31 12.33 14.33 16.36 18.38 20.42

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 TABLE VI. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS
 FOR CONFIGURATION, WFHVv; $\beta = 0^\circ$, $\delta_v = 0^\circ$ - Continued

(b) $M = 2.98$, $R = 0.51 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_S = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-9.92	.1623	.0553	-.1348	-.8690	.0961	-.0554	-9.92
-7.88	.1358	.0479	-.1041	-.9174	.0905	-.0291	-7.88
-5.87	.1685	.0472	-.0742	-.7517	.0871	-.0175	-5.87
-3.85	.2036	.0474	-.0459	-.6581	.0782	.0024	-3.85
-1.83	.1344	.0394	-.0072	-.6246	.0619	.0251	-1.83
.17	.3646	.0314	-.0140	-.5965	.0541	.0482	.17
2.18	.4727	.0233	-.0056	-.6915	.0408	.0801	2.18
4.22	.5038	.0153	.0167	-.6659	.0332	.1069	4.22
6.24	.5339	.0153	.0399	-.5122	.0396	.1244	6.24
8.25	.5702	.0153	.0682	-.6067	.0348	.1667	8.25
10.27	.6633	.0151	.0873	-.5770	.0271	.1894	10.27
12.29	.7611	.0070	.1069	-.6137	.0292	.2225	12.29
14.29	.8614	-.0014	.1264	-.7166	.0243	.2592	14.29
16.33	.8983	-.0095	.1547	-.6811	.0167	.2883	16.33
18.35	.9362	-.0175	.1830	-.7140	.0103	.3210	18.35
20.36	.9653	-.0018	.2113	-.4761	-.0012	.3389	20.36
Horizontal tail, left				Horizontal tail, right			
-9.92	-.3138	.0451	-.0710	-.1848	.0210	-.0907	-9.92
-7.88	-.2597	.0341	-.0581	-.0856	.0158	-.0814	-7.88
-5.87	-.2184	.0338	-.0375	-.0908	.0103	-.0549	-5.87
-3.85	-.1599	.0343	-.0203	-.0349	.0050	-.0438	-3.85
-1.83	-.1425	.0168	-.0011	-.0024	-.0004	-.0199	-1.83
.17	-.0477	-.0002	.0169	.1002	-.0056	-.0046	.17
2.18	.0002	-.0058	.0410	.1441	-.0164	.0181	2.18
4.22	.0976	-.0112	.0632	.1339	-.0272	.0487	4.22
6.24	.1746	-.0166	.0886	.2032	-.0383	.0733	6.24
8.25	.1760	-.0284	.1149	.2196	-.0492	.1003	8.25
10.27	.2184	-.0398	.1347	.3184	-.0544	.1151	10.27
12.29	.2617	-.0513	.1552	.3884	-.0655	.1346	12.29
14.29	.2774	-.0630	.1750	.4567	-.0824	.1500	14.29
16.33	.3277	-.0745	.1993	.4726	-.0932	.1765	16.33
18.35	.4096	-.0915	.2245	.4854	-.1096	.2042	18.35
20.36	.4359	-.0970	.2512	.5758	-.1258	.2293	20.36
Vertical tail, upper				Vertical tail, lower			
-9.92	.0216	.0000	-.0025	-.0399	.0199	.0356	-9.92
-7.88	.0219	.0000	-.0025	-.0404	.0203	.0358	-7.88
-5.87	.0216	.0000	-.0025	-.0490	.0199	.0430	-5.87
-3.85	.0219	-.0020	-.0025	-.0785	.0207	.0498	-3.85
-1.83	.0219	-.0020	-.0025	-.0488	.0199	.0430	-1.83
.17	.0219	-.0020	-.0025	-.0726	.0203	.0538	.17
2.18	.0219	-.0020	-.0025	-.0782	.0205	.0498	2.18
4.22	.0219	-.0020	-.0025	-.0782	.0205	.0498	4.22
6.24	.0219	-.0020	-.0025	-.0638	.0203	.0467	6.24
8.25	.0221	-.0020	-.0025	-.0638	.0203	.0467	8.25
10.27	.0219	-.0020	-.0025	-.0785	.0207	.0498	10.27
12.29	.0219	-.0020	-.0025	-.0638	.0203	.0467	12.29
14.29	.0221	-.0020	-.0025	-.0640	.0205	.0467	14.29
16.33	.0249	-.0020	-.0050	-.0640	.0205	.0467	16.33
18.35	.0249	-.0020	-.0050	-.0629	.0179	.0464	18.35
20.36	.0244	.0000	-.0050	-.0332	.0173	.0395	20.36

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55

TABLE VI. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS
FOR CONFIGURATION, WFHV; $\beta = 0^\circ$, $\delta_v = 0^\circ$ - Continued

(c) $M = 2.29$, $R = 3.24 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_s = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
	Wing, left			Wing, right			
-10.66	-0.3841	0.0380	-0.1707	-0.3301	0.0346	-0.1623	-10.66
-8.39	-0.3807	0.0298	-0.1320	-0.3117	0.0288	-0.1300	-8.39
-6.27	-0.3634	0.0229	-0.0969	-0.2060	0.0205	-0.0977	-6.27
-4.12	-0.2425	0.0167	-0.0626	-0.1007	0.0109	-0.0646	-4.12
-1.91	-0.1119	0.0101	-0.0295	-0.0118	0.0034	-0.0271	-1.91
.19	.0120	.0094	.0036	.0626	.0004	.0076	.19
2.34	.0702	.0042	.0427	.1037	.0012	.0475	2.34
4.50	.2228	-.0058	.0726	.1956	-.0036	.0821	4.50
6.67	.2934	-.0159	.1105	.2794	-.0169	.1156	6.67
8.81	.3618	-.0229	.1392	.3345	-.0265	.1491	8.81
10.98	.4182	-.0320	.1731	.3989	-.0372	.1826	10.98
13.16	.4485	-.0410	.2085	.4603	-.0470	.2141	13.16
15.35	.5004	-.0491	.2384	.5349	-.0561	.2424	15.35
17.54	.5672	-.0579	.2715	.6109	-.0663	.2723	17.54
19.76	.5931	-.0670	.3038	.6853	-.0752	.3007	19.76
21.93	.6597	-.0760	.3357	.7591	-.0830	.3310	21.93
	Horizontal tail, left			Horizontal tail, right			
-10.66	-0.1996	0.0473	-0.1062	-0.1982	0.0488	-0.1089	-10.66
-8.39	-0.1285	0.0340	-0.0772	-0.1379	0.0353	-0.0805	-8.39
-6.27	-0.0936	0.0258	-0.0530	-0.0780	0.0251	-0.0549	-6.27
-4.12	-0.0772	0.0196	-0.0402	-0.0623	0.0193	-0.0426	-4.12
-1.91	-0.0455	0.0105	-0.0200	-0.0285	0.0108	-0.0229	-1.91
.19	-0.0102	0.0024	.0088	.0154	-.0022	.0042	.19
2.34	.0216	-.0137	.0364	.0882	-.0135	.0285	2.34
4.50	.0681	-.0312	.0699	.1705	-.0301	.0617	4.50
6.67	.1339	-.0494	.1066	.2559	-.0475	.0970	6.67
8.81	.1914	-.0653	.1370	.3239	-.0655	.1271	8.81
10.98	.2481	-.0827	.1705	.3944	-.0827	.1631	10.98
13.16	.3006	-.0979	.2008	.4637	-.0986	.1935	13.16
15.35	.3667	-.1116	.2271	.5313	-.1122	.2205	15.35
17.54	.4409	-.1321	.2641	.6134	-.1340	.2573	17.54
19.76	.4946	-.1496	.2963	.6794	-.1497	.2871	19.76
21.93	.5784	-.1647	.3282	.7539	-.1617	.3183	21.93
	Vertical tail, upper			Vertical tail, lower			
-10.66	.0002	0.0000	-.0044	-.0037	.0015	-.0040	-10.66
-8.39	.0019	0.0000	-.0046	-.0049	.0015	-.0031	-8.39
-6.27	.0031	0.0000	-.0039	-.0049	.0015	-.0031	-6.27
-4.12	.0044	0.0000	-.0034	-.0073	.0015	-.0011	-4.12
-1.91	.0050	0.0002	-.0032	-.0009	.0013	-.0020	-1.91
.19	.0056	0.0002	-.0028	-.0065	.0011	-.0006	.19
2.34	.0109	0.0002	-.0025	-.0154	.0007	.0000	2.34
4.50	.0092	0.0005	-.0018	-.0154	.0007	.0000	4.50
6.67	.0047	0.0007	-.0009	-.0094	.0007	-.0009	6.67
8.81	.0053	0.0011	-.0007	-.0101	.0007	.0003	8.81
10.98	.0045	0.0016	-.0009	-.0075	.0007	.0003	10.98
13.16	.0037	0.0010	-.0002	-.0016	.0007	-.0046	13.16
15.35	.0047	0.0015	-.0009	-.0016	.0007	-.0046	15.35
17.54	.0090	0.0007	-.0018	-.0070	.0007	-.0011	17.54
19.76	.0059	0.0016	-.0025	-.0030	.0002	-.0023	19.76
21.93	.0051	0.0026	-.0028	-.0124	-.0004	-.0077	21.93

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56

TABLE VI. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS
FOR CONFIGURATION, WFHVv; $\beta = 0^\circ$, $\delta_v = 0^\circ$ - Continued

(d) $M = 2.98$, $R = 4.06 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_s = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left							
-10.56	-0.2571	.0292	-0.1360	-0.3564	.0350	-0.1192	-10.56
-8.38	-0.2232	.0247	-0.1085	-0.3083	.0302	-0.0937	-8.38
-6.24	-0.1566	.0191	-0.0817	-0.2579	.0253	-0.0662	-6.24
-4.08	-0.1580	.0131	-0.0490	-0.1897	.0191	-0.0391	-4.08
-1.94	-0.0527	.0088	-0.0267	-0.1017	.0123	-0.0171	-1.94
.18	.0489	.0070	-0.0056	-0.0337	.0072	.0064	.18
2.30	.1233	.0028	.0156	-0.0100	.0058	.0339	2.30
4.44	.2132	-0.0026	.0363	.0568	.0026	.0550	4.44
6.61	.3259	-0.0094	.0598	.1203	-0.0004	.0821	6.61
8.71	.3347	-0.0123	.0933	.1512	-0.0028	.1109	8.71
10.88	.3692	-0.0197	.1252	.1855	-0.0072	.1424	10.88
13.03	.4272	-0.0275	.1535	.2435	-0.0151	.1715	13.03
15.21	.4675	-0.0352	.1822	.3085	-0.0243	.1994	15.21
17.38	.5331	-0.0434	.2157	.3785	-0.0344	.2321	17.38
19.53	.5957	-0.0515	.2460	.4378	-0.0434	.2632	19.53
21.78	.6366	-0.0617	.2807	.5283	-0.0529	.2939	21.78
Horizontal tail, left							
-10.56	-0.2050	.0447	-0.0965	-0.1723	.0439	-0.0990	-10.56
-8.38	-0.1435	.0370	-0.0800	-0.1277	.0352	-0.0830	-8.38
-6.24	-0.0988	.0300	-0.0580	-0.0798	.0278	-0.0605	-6.24
-4.08	-0.0661	.0249	-0.0398	-0.0337	.0217	-0.0418	-4.08
-1.94	-0.0401	.0150	-0.0216	-0.0088	.0130	-0.0237	-1.94
.18	-0.0078	.0036	.0010	.0176	.0022	-0.0006	.18
2.30	.0309	-0.0085	.0268	.0770	-0.0080	.0217	2.30
4.44	.0657	-0.0221	.0545	.1381	-0.0194	.0480	4.44
6.61	.1116	-0.0363	.0842	.2086	-0.0308	.0768	6.61
8.71	.1581	-0.0464	.1084	.2567	-0.0438	.1015	8.71
10.88	.2000	-0.0565	.1286	.3130	-0.0539	.1205	10.88
13.03	.2427	-0.0692	.1500	.3675	-0.0664	.1409	13.03
15.21	.2832	-0.0815	.1723	.4212	-0.0799	.1637	15.21
17.38	.3347	-0.0964	.1999	.4766	-0.0956	.1910	17.38
19.53	.3990	-0.1114	.2276	.5393	-0.1099	.2176	19.53
21.78	.4539	-0.1272	.2585	.6044	-0.1256	.2464	21.78
Vertical tail, upper							
-10.56	-0.0037	.0016	-0.0037	-0.0168	-0.0006	.0046	-10.56
-8.38	-0.0040	.0013	-0.0028	-0.0234	-0.0004	.0068	-8.38
-6.24	-0.0019	.0008	-0.0028	-0.0234	-0.0004	.0068	-6.24
-4.08	-0.0012	.0007	-0.0025	-0.0182	-0.0004	.0023	-4.08
-1.94	.0009	.0005	-0.0025	-0.0196	-0.0004	.0028	-1.94
.18	.0016	.0002	-0.0023	-0.0245	-0.0004	.0063	.18
2.30	.0006	.0000	-0.0018	-0.0294	-0.0004	.0077	2.30
4.44	.0012	.0000	-0.0014	-0.0210	-0.0004	.0037	4.44
6.61	.0028	-0.0003	-0.0018	-0.0182	.0013	.0028	6.61
8.71	.0028	-0.0003	-0.0018	-0.0110	.0017	.0031	8.71
10.88	.0044	-0.0002	-0.0009	-0.0068	.0017	.0009	10.88
13.03	.0044	-0.0002	-0.0009	-0.0068	.0017	.0009	13.03
15.21	.0026	.0000	-0.0002	-0.0049	.0013	.0006	15.21
17.38	.0030	.0005	-0.0007	-0.0059	.0011	.0014	17.38
19.53	.0020	.0007	.0000	-0.0098	.0007	.0028	19.53
21.78	.0020	.0007	.0000	-0.0040	.0006	.0020	21.78
Vertical tail, lower							

L-350

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57

TABLE VI. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS
FOR CONFIGURATION, WFHVv; $\beta = 0^\circ$, $\delta_v = 0^\circ$ - Continued

(e) $M = 4.65$, $R = 4.43 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_S = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
	Wing, left			Wing, right			
-9.56	-0.2311	.0127	-.0686	-.0618	.0165	-.0770	-9.56
-7.47	-0.1847	.0086	-.0526	-.0299	.0135	-.0606	-7.47
-5.37	-0.1300	.0058	-.0407	-.0018	.0090	-.0447	-5.37
-3.36	-0.1055	.0028	-.0211	-.0006	.0052	-.0235	-3.36
-1.24	-0.1288	-.0002	.0020	.0407	.0020	-.0100	-1.24
.78	-0.0519	-.0030	.0104	.0957	-.0064	.0012	.78
2.83	-.0088	-.0016	.0247	.1005	-.0056	.0187	2.83
4.91	.0712	-.0030	.0355	.1316	-.0054	.0359	4.91
6.97	.1302	-.0078	.0494	.1639	-.0056	.0546	6.97
9.05	.1905	-.0109	.0650	.1829	-.0036	.0738	9.05
11.15	.2311	-.0141	.0857	.2072	-.0062	.0961	11.15
13.20	.2752	-.0187	.1089	.2445	-.0074	.1188	13.20
15.32	.3093	-.0235	.1344	.2748	-.0139	.1455	15.32
17.41	.3536	-.0298	.1679	.3476	-.0203	.1774	17.41
19.53	.4198	-.0366	.1966	.4069	-.0279	.2073	19.53
21.65	.4649	-.0446	.2297	.5030	-.0390	.2357	21.65
	Horizontal tail, left			Horizontal tail, right			
-9.56	-0.2180	.0178	-.0573	-.1325	.0236	-.0559	-9.56
-7.47	-0.1864	.0134	-.0468	-.1028	.0174	-.0443	-7.47
-5.37	-0.1589	.0093	-.0359	-.0778	.0123	-.0332	-5.37
-3.36	-0.1234	.0039	-.0214	-.0373	.0082	-.0195	-3.36
-1.24	-0.0888	-.0037	-.0072	-.0236	.0010	-.0051	-1.24
.78	-0.0599	-.0102	.0066	.0064	-.0042	.0084	.78
2.83	-.0327	-.0156	.0224	.0419	-.0082	.0225	2.83
4.91	-.0108	-.0243	.0372	.0808	-.0142	.0376	4.91
6.97	.0062	-.0319	.0499	.1104	-.0205	.0488	6.97
9.05	.1222	-.0283	.0610	.1369	-.0236	.0597	9.05
11.15	.1409	-.0380	.0794	.1752	-.0309	.0756	11.15
13.20	.1792	-.0489	.0999	.2311	-.0412	.0947	13.20
15.32	.2140	-.0609	.1242	.2609	-.0524	.1190	15.32
17.41	.2762	-.0749	.1538	.3437	-.0659	.1459	17.41
19.53	.3333	-.0849	.1795	.4130	-.0774	.1709	19.53
21.65	.3804	-.0979	.2095	.4693	-.0917	.2055	21.65
	Vertical tail, upper			Vertical tail, lower			
-9.56	.0040	.0010	-.0028	.0068	.0028	-.0046	-9.56
-7.47	.0042	.0007	-.0028	.0040	.0028	-.0040	-7.47
-5.37	.0090	.0007	-.0023	.0023	.0028	-.0026	-5.37
-3.36	.0090	.0003	-.0023	-.0012	.0028	-.0003	-3.36
-1.24	.0065	.0003	-.0014	.0003	.0033	-.0011	-1.24
.78	.0040	.0000	-.0005	-.0016	.0037	.0003	.78
2.83	.0047	.0000	-.0009	-.0016	.0037	.0003	2.83
4.91	.0047	-.0003	-.0009	.0002	.0037	-.0011	4.91
6.97	.0056	-.0003	-.0005	.0035	.0037	-.0040	6.97
9.05	.0056	-.0003	-.0005	.0080	.0037	-.0060	9.05
11.15	.0047	-.0003	-.0009	.0126	.0037	-.0080	11.15
13.20	.0056	-.0003	-.0005	.0143	.0037	-.0094	13.20
15.32	.0047	.0000	-.0009	.0098	.0037	-.0074	15.32
17.41	.0064	.0000	.0000	.0115	.0037	-.0088	17.41
19.53	.0064	.0003	.0000	.0098	.0037	-.0074	19.53
21.65	.0028	.0007	-.0018	.0154	.0035	-.0088	21.65

TABLE VI. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS
FOR CONFIGURATION, WFFHV; $\beta = 0^\circ$, $\delta_v = 0^\circ$ - Continued

(f) $M = 2.29$, $R = 0.51 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = -20^\circ$, $\delta_s = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
	Wing, left			Wing, right			
-9.94	.0618	.0394	-.1743	-.6147	.0680	-.1136	-9.94
-7.86	.0981	.0328	-.1459	-.6879	.0643	-.0738	-7.86
-5.84	.1913	.0263	-.1200	-.5409	.0557	-.0502	-5.84
-3.84	.2419	.0336	-.0837	-.3969	.0557	-.0171	-3.84
-1.82	.2138	.0197	-.0319	-.3997	.0430	.0251	-1.82
.19	.2537	.0267	-.0036	-.2292	.0340	.0387	.19
2.22	.3159	.0332	.0259	-.1715	.0201	.0662	2.22
4.25	.3656	.0265	.0638	-.0822	.0127	.0933	4.25
6.27	.5064	.0123	.0885	-.0419	.0064	.1240	6.27
8.28	.5931	.0058	.1128	-.1065	.0028	.1663	8.28
10.31	.6380	-.0008	.1388	-.1306	-.0024	.2022	10.31
12.32	.7289	-.0080	.1567	-.1598	-.0078	.2325	12.32
14.37	.6621	-.0143	.1966	-.1769	-.0127	.2699	14.37
16.38	.7032	-.0281	.2253	-.1380	-.0189	.3054	16.38
18.40	.7407	-.0283	.2548	-.0457	-.0334	.3326	18.40
20.44	.6729	-.0414	.2935	-.0387	-.0410	.3541	20.44
	Horizontal tail, left			Horizontal tail, right			
-9.94	-.8215	.1851	-.2745	-.6461	.1690	-.2883	-9.94
-7.86	-.7896	.1709	-.2609	-.6100	.1599	-.2734	-7.86
-5.84	-.7784	.1511	-.2478	-.5774	.1409	-.2652	-5.84
-3.84	-.7142	.1352	-.2509	-.5681	.1106	-.2544	-3.84
-1.82	-.7305	.1185	-.2291	-.4778	.0997	-.2458	-1.82
.19	-.7176	.1195	-.2207	-.4004	.0912	-.2390	.19
2.22	-.6728	.1050	-.2003	-.4058	.0869	-.2176	2.22
4.25	-.6148	.0905	-.1731	-.3291	.0731	-.1916	4.25
6.27	-.5184	.0786	-.1405	-.3098	.0574	-.1510	6.27
8.28	-.4299	.0642	-.1092	-.2377	.0392	-.1166	8.28
10.31	-.3293	.0421	-.0707	-.1309	.0172	-.0827	10.31
12.32	-.2216	.0285	-.0393	-.0377	-.0008	-.0523	12.32
14.37	-.1800	.0090	-.0093	-.0054	-.0147	-.0240	14.37
16.38	-.1445	-.0106	.0173	.0130	-.0383	.0055	16.38
18.40	-.1146	-.0202	.0309	.0126	-.0477	.0180	18.40
20.44	-.0758	-.0347	.0480	.0948	-.0568	.0357	20.44
	Vertical tail, upper			Vertical tail, lower			
-9.94	.0180	.0000	-.0021	-.0336	.0166	.0139	-9.94
-7.86	.0180	.0000	-.0021	-.0262	.0166	.0171	-7.86
-5.84	.0180	.0000	-.0021	-.0458	.0168	.0199	-5.84
-3.84	.0297	-.0002	-.0062	-.0261	.0170	.0239	-3.84
-1.82	.0182	.0000	-.0021	-.0574	.0148	.0262	-1.82
.19	.0292	.0015	-.0060	-.0250	.0148	.0236	.19
2.22	.0184	.0000	-.0021	-.0579	.0149	.0265	2.22
4.25	.0294	-.0002	-.0062	-.0579	.0149	.0265	4.25
6.27	.0283	.0015	-.0060	-.0560	.0146	.0256	6.27
8.28	.0457	.0015	-.0078	-.0556	.0144	.0253	8.28
10.31	.0577	.0015	-.0119	-.0568	.0148	.0262	10.31
12.32	.0403	.0015	-.0101	-.0250	.0148	.0236	12.32
14.37	.0590	-.0002	-.0122	-.0579	.0149	.0265	14.37
16.38	.0586	.0015	-.0122	-.0579	.0149	.0265	16.38
18.40	.0588	.0015	-.0122	-.0581	.0149	.0265	18.40
20.44	.0586	.0015	-.0122	-.0579	.0149	.0265	20.44

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59

TABLE VI. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS
FOR CONFIGURATION, WFHVv; $\beta = 0^\circ$, $\delta_v = 0^\circ$ - Continued

(g) $M = 2.98$, $R = 0.51 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = -20^\circ$, $\delta_s = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
	Wing, left			Wing, right			
-9.92	.0355	.0477	-.1300	-.8001	.0784	-.0598	-9.92
-7.84	.1356	.0477	-.1041	-.9162	.0903	-.0291	-7.84
-5.86	.1723	.0398	-.0754	-.7561	.0796	-.0179	-5.86
-3.86	.2074	.0398	-.0467	-.6538	.0704	.0080	-3.86
-1.84	.2042	.0318	-.0171	-.5632	.0611	.0219	-1.84
.18	.3660	.0314	-.0140	-.5780	.0458	.0498	.18
2.19	.4781	.0235	-.0056	-.6286	.0481	.0778	2.19
4.21	.5060	.0235	.0171	-.5427	.0306	.0953	4.21
6.25	.5387	.0155	.0399	-.5134	.0314	.1252	6.25
8.25	.5644	.0312	.0686	-.4771	.0320	.1535	8.25
10.28	.7210	.0229	.0786	-.4434	.0245	.1826	10.28
12.29	.7547	.0227	.1069	-.4844	.0283	.2093	12.29
14.31	.8538	.0145	.1264	-.5215	.0285	.2424	14.31
16.32	.8939	.0066	.1551	-.5556	.0223	.2759	16.32
18.33	.8642	-.0014	.1866	-.5205	.0147	.3046	18.33
20.37	.9687	-.0097	.2113	-.4094	-.0026	.3361	20.37
	Horizontal tail, left			Horizontal tail, right			
-9.92	-.9207	.1657	-.2354	-.5956	.1376	-.2579	-9.92
-7.84	-.8684	.1604	-.2228	-.5190	.1382	-.2498	-7.84
-5.86	-.8114	.1544	-.2091	-.4170	.1325	-.2391	-5.86
-3.86	-.7679	.1253	-.1924	-.4363	.1043	-.2170	-3.86
-1.84	-.7627	.1018	-.1808	-.3715	.0816	-.2064	-1.84
.18	-.7114	.0955	-.1705	-.4038	.0701	-.1907	.18
2.19	-.6734	.0848	-.1516	-.3369	.0595	-.1728	2.19
4.21	-.5876	.0793	-.1220	-.2679	.0486	-.1432	4.21
6.25	-.5132	.0622	-.0858	-.2040	.0322	-.1085	6.25
8.25	-.4237	.0387	-.0597	-.0914	.0042	-.0797	8.25
10.28	-.3894	.0157	-.0323	-.0553	-.0181	-.0559	10.28
12.29	-.3531	.0041	-.0159	-.0413	-.0346	-.0385	12.29
14.31	-.3437	-.0016	-.0120	-.0453	-.0404	-.0331	14.31
16.32	-.3371	-.0016	-.0078	-.0226	-.0462	-.0315	16.32
18.33	-.3291	-.0016	-.0041	-.0273	-.0516	-.0210	18.33
20.37	-.3112	-.0074	.0043	-.0319	-.0570	-.0106	20.37
	Vertical tail, upper			Vertical tail, lower			
-9.92	.0352	-.0002	-.0073	-.0233	.0026	.0267	-9.92
-7.84	.0348	.0018	-.0073	-.0245	.0050	.0270	-7.84
-5.86	.0352	-.0002	-.0073	-.0484	.0053	.0381	-5.86
-3.86	.0484	-.0002	-.0119	-.0336	.0052	.0347	-3.86
-1.84	.0218	.0000	-.0025	-.0575	.0053	.0455	-1.84
.18	.0244	.0000	-.0050	-.0572	.0053	.0452	.18
2.19	.0246	.0000	-.0050	-.0577	.0053	.0455	2.19
4.21	.0246	.0000	-.0050	-.0724	.0057	.0489	4.21
6.25	.0247	.0000	-.0050	-.0577	.0055	.0458	6.25
8.25	.0244	.0000	-.0050	-.0425	.0052	.0418	8.25
10.28	.0244	.0000	-.0050	-.0425	.0052	.0418	10.28
12.29	.0247	-.0020	-.0050	-.0425	.0052	.0418	12.29
14.31	.0244	.0000	-.0050	-.0574	.0053	.0452	14.31
16.32	.0246	.0000	-.0050	-.0427	.0052	.0421	16.32
18.33	.0246	.0000	-.0050	-.0427	.0052	.0418	18.33
20.37	.0246	.0000	-.0050	-.0427	.0052	.0418	20.37

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TABLE VI. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS
FOR CONFIGURATION, WFHVv; $\beta = 0^\circ$, $\delta_v = 0^\circ$ - Continued

(h) $M = 2.29$, $R = 1.87 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = -20^\circ$, $\delta_s = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-10.22	-0.3456	.0368	-.1599	-.3642	.0368	-.1447	-10.22
-8.07	-0.3889	.0294	-.1204	-.3767	.0320	-.1132	-8.07
-6.02	-0.3335	.0225	-.0885	-.2112	.0213	-.0845	-6.02
-3.95	-0.2449	.0173	-.0542	-.1592	.0159	-.0530	-3.95
-1.84	-0.1262	.0107	-.0227	-.0391	.0076	-.0191	-1.84
.25	-0.0072	.0072	.0088	.0441	.0074	.0152	.25
2.30	.0538	.0036	.0447	.0842	.0044	.0514	2.30
4.40	.1582	-.0020	.0754	.1221	.0018	.0865	4.40
6.49	.2926	-.0097	.1029	.2052	-.0097	.1164	6.49
8.58	.3390	-.0173	.1380	.2457	-.0163	.1527	8.58
10.67	.3686	-.0247	.1723	.3145	-.0237	.1862	10.67
12.77	.3803	-.0340	.2054	.3343	-.0322	.2165	12.77
14.85	.4495	-.0418	.2317	.4116	-.0420	.2436	14.85
16.97	.4834	-.0515	.2684	.4368	-.0505	.2791	16.97
19.07	.5391	-.0593	.2971	.5419	-.0629	.3018	19.07
21.23	.6021	-.0710	.3298	.6643	-.0754	.3278	21.23
Horizontal tail, left				Horizontal tail, right			
-10.22	-0.7393	.1708	-.2889	-.6134	.1722	-.2921	-10.22
-8.07	-0.7036	.1577	-.2732	-.5441	.1609	-.2784	-8.07
-6.02	-0.6724	.1314	-.2592	-.5267	.1325	-.2647	-6.02
-3.95	-0.6439	.1168	-.2539	-.4946	.1171	-.2580	-3.95
-1.84	-0.6273	.1129	-.2527	-.4665	.1132	-.2560	-1.84
.25	-0.5952	.1065	-.2407	-.4132	.1084	-.2444	.25
2.30	-0.5239	.0962	-.2187	-.3501	.0986	-.2224	2.30
4.40	-0.4513	.0818	-.1870	-.2920	.0823	-.1904	4.40
6.49	-0.3681	.0636	-.1507	-.2293	.0647	-.1537	6.49
8.58	-0.2910	.0440	-.1113	-.1681	.0447	-.1157	8.58
10.67	-0.2080	.0230	-.0688	-.1208	.0220	-.0742	10.67
12.77	-0.1543	.0046	-.0413	-.0521	.0030	-.0453	12.77
14.85	-0.1130	-.0085	-.0195	-.0323	-.0096	-.0233	14.85
16.97	-0.0537	-.0363	-.0092	0.214	-.0337	.0068	16.97
19.07	-0.0337	-.0510	.0264	.0647	-.0476	.0262	19.07
21.23	-0.0210	-.0602	.0441	.0872	-.0565	.0440	21.23
Vertical tail, upper				Vertical tail, lower			
-10.22	.0051	.0008	-.0069	.0045	-.0022	-.0020	-10.22
-8.07	.0047	.0003	-.0053	.0044	-.0024	-.0009	-8.07
-6.02	.0075	.0003	-.0060	.0012	-.0022	-.0003	-6.02
-3.95	.0086	.0003	-.0055	-.0031	-.0022	.0031	-3.95
-1.84	.0084	.0008	-.0055	-.0031	-.0022	.0031	-1.84
.25	.0084	.0008	-.0055	-.0052	-.0022	.0048	.25
2.30	.0095	.0008	-.0048	-.0087	-.0022	.0057	2.30
4.40	.0078	.0008	-.0039	-.0087	-.0022	.0057	4.40
6.49	.0078	.0013	-.0039	-.0052	-.0022	.0048	6.49
8.58	.0106	.0021	-.0028	-.0066	-.0022	.0040	8.58
10.67	.0156	.0021	-.0032	-.0010	-.0022	.0014	10.67
12.77	.0076	.0016	-.0039	0.012	-.0022	-.0003	12.77
14.85	.0048	.0021	-.0032	0.012	-.0022	-.0003	14.85
16.97	.0078	.0016	-.0039	-.0066	-.0022	.0040	16.97
19.07	.0065	.0021	-.0044	0.002	-.0024	.0026	19.07
21.23	.0047	.0029	-.0032	.0112	-.0024	-.0026	21.23

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61

TABLE VI. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS
FOR CONFIGURATION, WFHVv; $\beta = 0^\circ$, $\delta_v = 0^\circ$ - Continued

(i) $M = 2.98$, $R = 1.87 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = -20^\circ$, $\delta_S = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-10.13	-.2064	.0380	-.1288	-.4880	.0470	-.0981	-10.13
-8.03	-.1727	.0316	-.1025	-.4420	.0428	-.0750	-8.03
-5.98	-.1370	.0255	-.0750	-.3923	.0384	-.0490	-5.98
-3.93	-.0678	.0191	-.0506	-.2495	.0279	-.0275	-3.93
-1.86	.0010	.0149	-.0263	-.1671	.0207	-.0068	-1.86
.21	.0758	.0127	-.0040	-.1909	.0179	.0219	.21
2.25	.1482	.0127	.0156	-.1123	.0151	.0427	2.25
4.32	.2846	.0060	.0315	-.0305	.0056	.0622	4.32
6.39	.3369	.0014	.0566	-.0203	.0068	.0901	6.39
8.44	.3730	-.0032	.0841	-.0265	.0048	.1164	8.44
10.51	.4100	-.0097	.1116	-.0401	.0014	.1459	10.51
12.60	.4473	-.0185	.1392	-.0905	-.0074	.1719	12.60
14.65	.5010	-.0253	.1643	-.1564	-.0163	.1954	14.65
16.74	.5626	-.0322	.1954	-.2134	-.0227	.2297	16.74
18.83	.6017	-.0390	.2245	-.2836	-.0314	.2580	18.83
20.91	.6478	-.0481	.2580	-.3572	-.0404	.2895	20.91
Horizontal tail, left				Horizontal tail, right			
-10.13	-.6878	.1447	-.2538	-.5303	.1456	-.2628	-10.13
-8.03	-.6437	.1451	-.2419	-.4892	.1457	-.2515	-8.03
-5.98	-.6064	.1357	-.2286	-.4553	.1352	-.2391	-5.98
-3.93	-.5555	.1058	-.2152	-.4156	.1092	-.2226	-3.93
-1.86	-.4888	.0938	-.2177	-.3705	.0927	-.2150	-1.86
.21	-.5233	.0888	-.1982	-.3395	.0882	-.2060	.21
2.25	-.4629	.0799	-.1761	-.2916	.0781	-.1827	2.25
4.32	-.3786	.0611	-.1438	-.2243	.0662	-.1514	4.32
6.39	-.3237	.0425	-.1075	-.1768	.0469	-.1146	6.39
8.44	-.2603	.0256	-.0779	-.1293	.0261	-.0843	8.44
10.51	-.2245	.0068	-.0552	-.1136	.0096	-.0616	10.51
12.60	-.1804	-.0135	-.0367	-.0780	-.0101	-.0432	12.60
14.65	-.1475	-.0212	-.0325	-.0764	-.0176	-.0356	14.65
16.74	-.1493	-.0244	-.0266	-.0663	-.0237	-.0306	16.74
18.83	-.1162	-.0273	-.0211	-.0485	-.0280	-.0251	18.83
20.91	-.0934	-.0335	-.0143	-.0539	-.0355	-.0165	20.91
Vertical tail, upper				Vertical tail, lower			
-10.13	.0033	.0015	-.0050	-.0220	.0015	.0154	-10.13
-8.03	.0065	.0015	-.0057	-.0245	.0017	.0174	-8.03
-5.98	.0101	.0005	-.0064	-.0220	.0015	.0151	-5.98
-3.93	.0081	.0005	-.0050	-.0330	.0017	.0148	-3.93
-1.86	.0093	.0000	-.0046	-.0245	.0017	.0174	-1.86
.21	.0093	.0000	-.0046	-.0367	.0015	.0119	.21
2.25	.0131	-.0005	-.0032	-.0245	.0017	.0174	2.25
4.32	.0190	-.0005	-.0039	-.0367	.0015	.0119	4.32
6.39	.0249	-.0005	-.0046	-.0399	.0017	.0131	6.39
8.44	.0067	-.0005	-.0014	-.0299	.0022	.0102	8.44
10.51	.0100	-.0005	-.0021	-.0299	.0022	.0102	10.51
12.60	.0067	-.0005	-.0014	-.0297	.0022	.0102	12.60
14.65	.0100	-.0005	-.0021	-.0299	.0022	.0102	14.65
16.74	.0100	-.0005	-.0021	-.0084	.0020	.0063	16.74
18.83	.0187	.0010	-.0039	-.0194	.0022	.0071	18.83
20.91	.0065	.0010	-.0014	-.0084	.0020	.0063	20.91

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TABLE VI. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS
FOR CONFIGURATION, WFFHV_v; $\beta = 0^\circ$, $b_v = 0^\circ$ - Continued

(j) $M = 4.65$, $R = 2.28 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = -20^\circ$, $\delta_S = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-9.44	-0.3213	.0109	-0.0526	.0481	.0050	-0.0730	-9.44
-7.34	-0.2315	.0084	-0.0415	-0.0564	.0111	-0.0494	-7.34
-5.31	-0.2084	.0084	-0.0227	-0.0395	.0084	-0.0343	-5.31
-3.30	-0.2086	.0056	-0.0028	.0732	.0006	-0.0263	-3.30
-1.26	-0.2363	.0026	.0175	.0979	-0.0054	-0.0144	-1.26
.78	-0.0931	.0000	.0163	.1103	-0.0109	.0036	.78
2.80	-0.0397	-0.0030	.0287	.1274	-0.0139	.0187	2.80
4.83	.0652	-0.0030	.0323	.1442	-0.0103	.0363	4.83
6.89	.0678	-0.0058	.0546	.1645	-0.0099	.0558	6.89
8.93	.1171	-0.0088	.0722	.1849	-0.0095	.0754	8.93
10.96	.1663	-0.0147	.0893	.2086	-0.0119	.0969	10.96
13.00	.1958	-0.0177	.1124	.2102	-0.0139	.1220	13.00
15.05	.2748	-0.0237	.1328	.2393	-0.0189	.1479	15.05
17.13	.2938	-0.0296	.1675	.2501	-0.0205	.1814	17.13
19.13	.3566	-0.0358	.1954	.3057	-0.0265	.2081	19.13
21.23	.4906	-0.0424	.2169	.4613	-0.0386	.2325	21.23
Horizontal tail, left				Horizontal tail, right			
-9.44	-0.5461	.1257	-0.2086	-0.4740	.1271	-0.2093	-9.44
-7.34	-0.5219	.1280	-0.1955	-0.4325	.1190	-0.1957	-7.34
-5.31	-0.4495	.1047	-0.1725	-0.3697	.1008	-0.1705	-5.31
-3.30	-0.4499	.0685	-0.1546	-0.2996	.0762	-0.1557	-3.30
-1.26	-0.4227	.0558	-0.1481	-0.2960	.0680	-0.1475	-1.26
.78	-0.4076	.0452	-0.1270	-0.2405	.0517	-0.1303	.78
2.80	-0.3760	.0367	-0.1119	-0.2377	.0436	-0.1146	2.80
4.83	-0.3573	.0176	-0.0907	-0.2022	.0274	-0.0928	4.83
6.89	-0.3411	-0.0038	-0.0764	-0.1665	.0088	-0.0802	6.89
8.93	-0.3461	-0.0102	-0.0753	-0.1816	.0006	-0.0763	8.93
10.96	-0.3467	-0.0102	-0.0807	-0.2016	-0.0016	-0.0789	10.96
13.00	-0.3541	-0.0124	-0.0851	-0.2108	-0.0017	-0.0832	13.00
15.05	-0.3587	-0.0146	-0.0879	-0.2214	-0.0039	-0.0851	15.05
17.13	-0.3711	-0.0168	-0.0897	-0.2331	-0.0081	-0.0872	17.13
19.13	-0.3587	-0.0210	-0.0895	-0.2247	-0.0102	-0.0883	19.13
21.23	-0.3357	-0.0251	-0.0887	-0.2275	-0.0142	-0.0846	21.23
Vertical tail, upper				Vertical tail, lower			
-9.44	.0051	.0020	-0.0034	.0775	.0011	-0.0210	-9.44
-7.34	.0053	.0013	-0.0034	.0720	.0011	-0.0182	-7.34
-5.31	.0053	.0013	-0.0034	.0582	.0013	-0.0142	-5.31
-3.30	.0174	.0013	-0.0044	.0512	.0015	-0.0082	-3.30
-1.26	.0053	.0013	-0.0034	.0582	.0013	-0.0142	-1.26
.78	.0176	.0007	-0.0044	.0512	.0015	-0.0082	.78
2.80	.0176	.0007	-0.0044	.0470	.0015	-0.0063	2.80
4.83	.0176	.0007	-0.0044	.0430	.0015	-0.0040	4.83
6.89	.0255	.0007	-0.0053	.0430	.0015	-0.0040	6.89
8.93	.0208	.0000	-0.0037	.0315	.0015	-0.0074	8.93
10.96	.0257	.0000	-0.0053	.0336	.0015	-0.0057	10.96
13.00	.0257	.0000	-0.0053	.0282	.0015	-0.0046	13.00
15.05	.0135	.0000	-0.0028	.0495	.0013	-0.0043	15.05
17.13	.0089	.0007	-0.0018	.0512	.0015	-0.0082	17.13
19.13	.0135	.0000	-0.0028	.0512	.0015	-0.0082	19.13
21.23	.0109	-0.0007	-0.0009	.0722	.0011	-0.0182	21.23

63

TABLE VI. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS
FOR CONFIGURATION, WFHV_v; $\beta = 0^\circ$, $\delta_v = 0^\circ$ - Continued

$$(k) \quad M = 2.29, R = 3.24 \times 10^6, \delta_{H,L} = \delta_{H,R} = -20^\circ, \delta_S = 0^\circ$$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg	
	Wing, left				Wing, right			
-10.53	-0.3755	0.0380	-0.1711	-0.3373	0.0348	-0.1603	-10.53	
-8.35	-0.3795	0.0298	-0.1316	-0.3008	0.0285	-0.1292	-8.35	
-6.15	-0.3604	0.0229	-0.0945	-0.2389	0.0203	-0.0933	-6.15	
-4.04	-0.2254	0.0159	-0.0634	-0.0838	0.0105	-0.0662	-4.04	
-1.87	-0.1003	0.0101	-0.0275	-0.0267	0.0038	-0.0239	-1.87	
.28	0.0130	0.0074	0.0052	0.0379	0.0030	0.0112	.28	
2.43	0.0977	0.0020	0.0423	0.0903	-0.0006	0.0510	2.43	
4.59	0.2385	-0.0070	0.0698	0.1799	-0.0076	0.0829	4.59	
6.75	0.3193	-0.0181	0.1077	0.2647	-0.0197	0.1176	6.75	
8.89	0.3909	-0.0253	0.1392	0.3035	-0.0259	0.1535	8.89	
11.07	0.4372	-0.0332	0.1723	0.3686	-0.0352	0.1878	11.07	
13.27	0.4767	-0.0424	0.2077	0.4613	-0.0458	0.2161	13.27	
15.46	0.5299	-0.0507	0.2384	0.5267	-0.0535	0.2440	15.46	
17.68	0.5879	-0.0603	0.2715	0.6053	-0.0647	0.2763	17.68	
19.87	0.6416	-0.0688	0.3018	0.6717	-0.0746	0.3050	19.87	
22.08	0.6845	-0.0796	0.3385	0.7415	-0.0844	0.3381	22.08	
	Horizontal tail, left				Horizontal tail, right			
-10.53	-0.7142	0.1704	-0.2884	-0.5896	0.1706	-0.2963	-10.53	
-8.35	-0.6629	0.1605	-0.2715	-0.5393	0.1604	-0.2776	-8.35	
-6.15	-0.6309	0.1319	-0.2575	-0.5231	0.1332	-0.2642	-6.15	
-4.04	-0.6096	0.1166	-0.2517	-0.4938	0.1138	-0.2565	-4.04	
-1.87	-0.5926	0.1135	-0.2509	-0.4619	0.1093	-0.2537	-1.87	
.28	-0.5469	0.1075	-0.2394	-0.4289	0.1044	-0.2416	.28	
2.43	-0.4834	0.0964	-0.2165	-0.3864	0.0944	-0.2176	2.43	
4.59	-0.4126	0.0813	-0.1844	-0.3104	0.0786	-0.1862	4.59	
6.75	-0.3357	0.0626	-0.1437	-0.2451	0.0599	-0.1450	6.75	
8.89	-0.2477	0.0432	-0.1040	-0.1822	0.0404	-0.1079	8.89	
11.07	-0.1603	0.0183	-0.0618	-0.1116	0.0174	-0.0669	11.07	
13.27	-0.1160	0.0017	-0.0367	-0.0701	0.0000	-0.0415	13.27	
15.46	-0.0705	-0.0133	-0.0085	-0.0285	-0.0158	-0.0109	15.46	
17.68	-0.0132	-0.0422	0.0172	0.0389	-0.0415	0.0177	17.68	
19.87	0.0118	-0.0560	0.0367	0.0782	-0.0575	0.0398	19.87	
22.08	0.0349	-0.0665	0.0579	0.1182	-0.0667	0.0589	22.08	
	Vertical tail, upper				Vertical tail, lower			
-10.53	-0.0005	0.0003	-0.0067	-0.0070	0.0002	-0.0034	-10.53	
-8.35	0.0019	0.0003	-0.0067	-0.0107	0.0002	-0.0003	-8.35	
-6.15	0.0031	0.0005	-0.0062	-0.0112	0.0002	0.0011	6.15	
-4.04	0.0022	0.0005	-0.0055	-0.0122	0.0002	0.0023	-4.04	
-1.87	0.0023	0.0007	-0.0044	-0.0191	0.0002	0.0009	-1.87	
.28	0.0023	0.0010	-0.0044	-0.0205	0.0002	0.0017	.28	
2.43	0.0026	0.0007	-0.0030	-0.0205	0.0002	0.0017	2.43	
4.59	0.0058	0.0010	-0.0037	-0.0229	0.0002	0.0020	4.59	
6.75	0.0054	0.0011	-0.0028	-0.0229	0.0002	0.0020	6.75	
8.89	0.0042	0.0020	-0.0021	-0.0229	0.0002	0.0020	8.89	
11.07	0.0042	0.0021	-0.0021	-0.0191	0.0002	0.0009	11.07	
13.27	0.0044	0.0016	-0.0021	-0.0199	0.0002	0.0003	13.27	
15.46	0.0047	0.0021	-0.0030	-0.0094	0.0002	-0.0014	15.46	
17.68	0.0056	0.0020	-0.0037	-0.0161	0.0002	-0.0006	17.68	
19.87	0.0031	0.0034	-0.0037	-0.0166	0.0002	0.0009	19.87	
22.08	0.0019	0.0034	-0.0044	-0.0042	0.0002	-0.0011	22.08	

TABLE VI. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS
FOR CONFIGURATION, WFFHV; $\beta = 0^\circ$, $\delta_v = 0^\circ$ - Continued

(I) $M = 2.98$, $R = 4.06 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = -20^\circ$, $\delta_s = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
	Wing, left			Wing, right			
-10.48	-0.3109	0.0308	-0.1248	-0.2910	0.0294	-0.1192	-10.48
-8.27	-0.2619	0.0253	-0.0985	-0.2507	0.0241	-0.0925	-8.27
-6.13	-0.1958	0.0199	-0.0722	-0.1845	0.0193	-0.0666	-6.13
-4.04	-0.1915	0.0151	-0.0415	-0.1181	0.0119	-0.0407	-4.04
-1.88	-0.0965	0.0105	-0.0199	-0.0323	0.0050	-0.0207	-1.88
.24	-0.0168	0.0080	0.0040	0.0140	0.0010	0.0056	.24
2.34	.0770	.0048	.0211	.0493	-.0006	.0303	2.34
4.52	.1677	-.0004	.0427	.1244	-.0032	.0518	4.52
6.65	.2716	-.0060	.0670	.1715	-.0040	.0809	6.65
8.80	.2750	-.0119	.1029	.2052	-.0099	.1109	8.80
10.93	.3251	-.0183	.1336	.2633	-.0149	.1420	10.93
13.11	.3763	-.0261	.1639	.3301	-.0241	.1715	13.11
15.30	.4426	-.0338	.1914	.3947	-.0332	.1994	15.30
17.49	.5092	-.0420	.2253	.4737	-.0436	.2333	17.49
19.69	.5630	-.0511	.2564	.5165	-.0533	.2644	19.69
21.89	.6254	-.0615	.2931	.6165	-.0651	.2963	21.89
	Horizontal tail, left			Horizontal tail, right			
-10.48	-0.6217	0.1420	-0.2577	-0.4980	0.1407	-0.2619	-10.48
-8.27	-0.5872	0.1452	-0.2448	-0.4639	0.1411	-0.2485	-8.27
-6.13	-0.5413	0.1345	-0.2321	-0.4397	0.1299	-0.2346	-6.13
-4.04	-0.4928	0.1049	-0.2131	-0.4068	0.1012	-0.2151	-4.04
-1.88	-0.4794	0.0919	-0.2090	-0.3812	0.0859	-0.2068	-1.88
.24	-0.4483	0.0870	-0.2007	-0.3449	0.0824	-0.1988	.24
2.34	-0.3966	0.0786	-0.1793	-0.3036	0.0744	-0.1782	2.34
4.52	-0.3301	0.0628	-0.1437	-0.2361	0.0595	-0.1435	4.52
6.65	-0.2519	0.0417	-0.1056	-0.1812	0.0397	-0.1061	6.65
8.80	-0.1936	0.0232	-0.0791	-0.1361	0.0190	-0.0789	8.80
10.93	-0.1611	0.0043	-0.0575	-0.1020	0.0017	-0.0579	10.93
13.11	-0.1441	0.0138	-0.0401	-0.0886	0.0163	-0.0431	13.11
15.30	-0.1331	0.0195	-0.0354	-0.0806	0.0234	-0.0369	15.30
17.49	-0.1096	0.0266	-0.0228	-0.0531	0.0295	-0.0251	17.49
19.69	-0.0984	0.0323	-0.0166	-0.0405	0.0343	-0.0176	19.69
21.89	-0.0774	0.0411	-.0073	-0.0166	0.0412	0.0072	21.89
	Vertical tail, upper			Vertical tail, lower			
-10.48	.0026	0.0013	-.0037	-.0007	0.0000	-.0006	-10.48
-8.27	.0039	0.0011	-.0032	-.0077	0.0000	0.0017	-8.27
-6.13	.0045	0.0007	-.0030	-.0037	0.0000	0.0009	-6.13
-4.04	.0061	0.0005	-.0032	-.0031	0.0000	0.0006	-4.04
-1.88	.0146	0.0002	-.0032	-.0031	0.0000	0.0006	-1.88
.24	.0079	0.0000	-.0025	-.0031	0.0000	0.0006	.24
2.34	.0079	0.0000	-.0025	-.0044	0.0000	0.0003	2.34
4.52	.0076	-.0003	-.0016	-.0031	0.0000	0.0006	4.52
6.65	.0082	-.0005	-.0014	-.0002	0.0000	0.0020	6.65
8.80	.0073	-.0005	-.0007	0.0021	0.0000	0.0037	8.80
10.93	.0073	-.0005	-.0007	0.0038	0.0000	0.0043	10.93
13.11	.0073	-.0002	-.0007	0.0051	0.0000	0.0051	13.11
15.30	.0073	0.0000	-.0007	0.0068	0.0000	0.0057	15.30
17.49	.0056	0.0011	-.0005	0.0075	0.0000	0.0051	17.49
19.69	.0078	0.0007	-.0005	0.0094	-.0002	0.0054	19.69
21.89	.0065	0.0011	-.0009	0.0191	-.0002	0.0054	21.89

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TABLE VI. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS

FOR CONFIGURATION, WFHVv; $\beta = 0^\circ$, $\delta_v = 0^\circ$ - Continued(m) $M = 4.65$, $R = 4.43 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = -20^\circ$, $\delta_s = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-9.57	-0.2529	.0127	-0.0654	-0.0473	.0147	-0.0762	-9.57
-7.40	-0.1956	.0086	-0.0510	-0.0407	.0123	-0.0590	-7.40
-5.38	-0.1520	.0058	-0.0371	-0.0102	.0076	-0.0443	-5.38
-3.30	-0.1069	.0028	-0.0223	.0108	.0050	-0.0251	-3.30
-1.26	-0.1398	-0.0002	.0036	.0536	.0002	-0.108	-1.26
.81	-0.0628	-0.0030	.0124	.1083	-0.0066	.0004	.81
2.88	.0026	-0.0030	.0227	.1256	-0.0062	.0175	2.88
4.94	.0592	-0.0046	.0363	.1442	-0.0056	.0355	4.94
7.01	.1191	-0.0078	.0514	.1763	-0.0054	.0538	7.01
9.08	.1793	-0.0109	.0666	.1978	-0.0070	.0742	9.08
11.19	.2439	-0.0143	.0849	.2327	-0.0084	.0945	11.19
13.27	.2752	-0.0187	.1089	.2457	-0.0105	.1188	13.27
15.33	.3225	-0.0251	.1340	.2994	-0.0169	.1431	15.33
17.44	.3787	-0.0316	.1655	.3843	-0.0237	.1746	17.44
19.59	.4232	-0.0382	.1986	.4088	-0.0294	.2085	19.59
21.73	.5060	-0.0466	.2285	.5072	-0.0406	.2392	21.73
Horizontal tail, left				Horizontal tail, right			
-9.57	-0.4946	.1290	-0.2049	-0.4144	.1239	-0.2091	-9.57
-7.40	-0.4499	.1225	-0.1914	-0.3649	.1188	-0.1961	-7.40
-5.38	-0.3920	.1020	-0.1684	-0.3094	.1011	-0.1696	-5.38
-3.30	-0.3687	.0700	-0.1519	-0.2683	.0747	-0.1529	-3.30
-1.26	-0.3557	.0578	-0.1450	-0.2357	.0639	-0.1466	-1.26
.81	-0.2974	.0472	-0.1275	-0.2008	.0513	-0.1285	.81
2.88	-0.2709	.0374	-0.1132	-0.1916	.0452	-0.1142	2.88
4.94	-0.2417	.0187	-0.0935	-0.1643	.0283	-0.0951	4.94
7.01	-0.2279	-0.0001	-0.0794	-0.1425	.0092	-0.0806	7.01
9.08	-0.2299	-0.0044	-0.0789	-0.1479	.0007	-0.0782	9.08
11.19	-0.2301	-0.0055	-0.0847	-0.1629	-0.0005	-0.0816	11.19
13.27	-0.2517	-0.0068	-0.0882	-0.1932	-0.0017	-0.0838	13.27
15.33	-0.2599	-0.0100	-0.0907	-0.1990	-0.0038	-0.0865	15.33
17.44	-0.2621	-0.0122	-0.0921	-0.2088	-0.0072	-0.0882	17.44
19.59	-0.2527	-0.0177	-0.0912	-0.2088	-0.0125	-0.0880	19.59
21.73	-0.2443	-0.0232	-0.0879	-0.2074	-0.0178	-0.0854	21.73
Vertical tail, upper				Vertical tail, lower			
-9.57	.0022	.0013	-0.0034	.0154	.0013	-0.0097	-9.57
-7.40	.0047	.0010	-0.0039	.0108	.0013	-0.0077	-7.40
-5.38	.0033	.0010	-0.0032	.0108	.0013	-0.0077	-5.38
-3.30	.0019	.0007	-0.0023	.0056	.0013	-0.0034	-3.30
-1.26	.0028	.0007	-0.0018	.0136	.0013	-0.0040	-1.26
.81	.0028	.0003	-0.0018	.0136	.0013	-0.0040	.81
2.88	.0028	.0003	-0.0018	.0108	.0013	-0.0026	2.88
4.94	.0092	.0000	-0.0023	.0101	.0013	-0.0054	4.94
7.01	.0042	-0.0003	-0.0005	.0136	.0013	-0.0082	7.01
9.08	.0047	-0.0003	-0.0009	.0136	.0013	-0.0082	9.08
11.19	.0132	-0.0003	-0.0028	.0224	.0011	-0.0071	11.19
13.27	.0107	-0.0003	-0.0018	.0154	.0013	-0.0097	13.27
15.33	.0047	.0003	-0.0009	.0124	.0041	-0.0080	15.33
17.44	.0064	.0003	.0000	.0124	.0041	-0.0080	17.44
19.59	.0054	.0003	-0.0005	.0107	.0041	-0.0065	19.59
21.73	.0090	.0007	-0.0023	.0107	.0041	-0.0065	21.73

TABLE VI. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS
FOR CONFIGURATION, WFHVv; $\beta = 0^\circ$, $\delta_v = 0^\circ$ - Continued

(n) $M = 2.29$, $R = 0.51 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_S = 35^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-9.99	-0.3564	.0064	-0.1455	.0804	.0133	-0.1400	-9.99
-7.86	-0.3197	-0.0002	-0.1172	.2252	.0048	-0.1156	-7.86
-5.88	-0.2776	-0.0068	-0.0841	.2649	-0.0014	-0.0809	-5.88
-3.85	-0.2282	-0.0135	-0.0455	.5120	-0.0119	-0.0638	-3.85
-1.83	-0.3187	-0.0135	.0076	.6089	-0.0195	-0.0371	-1.83
.20	.1532	-0.0201	.0287	.7475	-0.0281	-0.0203	.20
2.21	.0024	-0.0201	.0411	.8291	-0.0428	-0.0036	2.21
4.22	.0100	-0.0201	.0825	.8151	-0.0549	.0335	4.22
6.25	.0888	-0.0334	.1128	.8604	-0.0680	.0730	6.25
8.28	.1244	-0.0336	.1424	.8466	-0.0732	.1109	8.28
10.30	.2112	-0.0537	.1583	.7732	-0.0770	.1503	10.30
12.31	.2980	-0.0605	.1790	.7501	-0.0822	.1826	12.31
14.36	.2776	-0.0603	.2105	.7772	-0.0883	.2069	14.36
16.37	.3704	-0.0607	.2369	.8692	-0.0961	.2349	16.37
18.40	.3528	-0.0738	.2672	1.0544	-0.1054	.2456	18.40
20.42	.2858	-0.0804	.3074	1.1478	-0.1202	.2731	20.42
Horizontal tail, left				Horizontal tail, right			
-9.99	-0.5377	.0222	-0.0756	-0.3806	.0127	-0.0695	-9.99
-7.86	-0.4758	.0225	-0.0545	-0.3004	.0035	-0.0523	-7.86
-5.88	-0.4072	.0178	-0.0427	-0.2397	-0.0009	-0.0363	-5.88
-3.85	-0.3705	.0082	-0.0256	-0.2255	-0.0102	-0.0177	-3.85
-1.83	-0.3064	-0.0064	-0.0076	-0.1631	-0.0147	-0.0015	-1.83
.20	.2635	-0.0159	.0129	-0.1281	-0.0191	.0178	.20
2.21	.2070	-0.0156	.0310	-0.0715	-0.0377	.0387	2.21
4.22	.1513	-0.0253	.0579	-0.0583	-0.0470	.0659	4.22
6.25	.1089	-0.0448	.0878	.0377	-0.0655	.0929	6.25
8.28	.0271	-0.0593	.1165	.1120	-0.0843	.1198	8.28
10.30	.0353	-0.0739	.1446	-0.0838	-2.1649	.3026	10.30
12.31	.0246	-0.0933	.1717	-0.1087	-2.1605	.3261	12.31
14.36	.1263	-0.1123	.1969	-1.3694	-2.1560	.3886	14.36
16.37	.1862	-0.1419	.2345	-0.7850	-2.1630	.3880	16.37
18.40	.2425	-0.1658	.2704	-0.7425	-2.1547	.4221	18.40
20.42	.2734	-0.1954	.3162	-0.6389	-2.1577	.4656	20.42
Vertical tail, upper				Vertical tail, lower			
-9.99	-0.0180	-0.0015	.0021	.0591	.0103	-0.0723	-9.99
-7.86	-0.0296	.0002	.0062	.0593	.0103	-0.0725	-7.86
-5.88	-0.0297	.0002	.0062	.0525	.0083	-0.0666	-5.88
-3.85	-0.0297	.0002	.0062	.0525	.0083	-0.0666	-3.85
-1.83	-0.0296	.0002	.0062	.0523	.0083	-0.0663	-1.83
.20	-0.0296	.0002	.0062	.0533	.0063	-0.0666	.20
2.21	-0.0184	.0000	.0021	.0523	.0083	-0.0663	2.21
4.22	.0000	.0000	.0000	.0533	.0063	-0.0666	4.22
6.25	-0.0112	.0000	.0039	.0609	.0061	-0.0725	6.25
8.28	-0.0115	.0016	.0041	.0612	.0063	-0.0728	8.28
10.30	.0003	.0016	.0000	.0689	.0061	-0.0791	10.30
12.31	.0112	.0000	-0.0039	.0609	.0061	-0.0725	12.31
14.36	-0.0112	.0000	.0039	.0694	.0041	-0.0791	14.36
16.37	.0000	.0000	.0000	.0706	.0018	-0.0794	16.37
18.40	.0109	.0015	-0.0039	.0705	.0018	-0.0791	18.40
20.42	.0109	.0015	-0.0039	.1114	.0017	-0.0728	20.42
Speed brakes, upper				Speed brakes, lower			
-9.99	1.1543	.0507	.5776	1.0450	-0.1738	.6187	-9.99
-7.86	1.1196	.0336	.5647	1.0735	-0.1560	.6200	-7.86
-5.88	1.0981	.0336	.5608	1.0907	-0.1563	.6253	-5.88
-3.85	1.0851	.0335	.5633	1.1042	-0.1562	.6284	-3.85
-1.83	1.0683	.0333	.5639	1.1271	-0.1553	.6325	-1.83
.20	1.0554	.0331	.5665	1.1816	-0.1901	.6514	.20
2.21	1.0400	.0844	.5677	1.2483	-0.2072	.6787	2.21
4.22	1.0013	.1014	.5583	1.3021	-0.2244	.6973	4.22
6.25	.9869	.1012	.5544	1.3530	-0.2412	.7201	6.25
8.28	.9882	.1356	.5665	1.3841	-0.2419	.7346	8.28
10.30	.9989	.1181	.5855	1.4348	-0.2410	.7514	10.30
12.31	.9476	.1180	.5561	1.4714	-0.2404	.7707	12.31
14.36	.8234	.1182	.4649	1.5224	-0.2570	.7878	14.36
16.37	.6283	.1364	.3301	1.5675	-0.2576	.8056	16.37
18.40	.4416	.1192	.2189	1.6144	-0.2563	.8264	18.40
20.42	.2792	.1538	.1357	1.6843	-0.2737	.8495	20.42

REF ID: A651029
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67

TABLE VI. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS

FOR CONFIGURATION, WFHVV; $\beta = 0^\circ$, $\delta_v = 0^\circ$ - Continued(o) $M = 2.98$, $R = 0.51 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_s = 35^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left							
Wing, right							
-9.96	-0.1747	-0.0318	-0.0957	-0.0251	-0.0378	-0.1057	-9.96
-7.88	-0.0174	-0.0320	-0.0794	.1901	-0.0330	-0.0977	-7.88
-5.87	.0156	-0.0241	-0.0506	.2182	-0.0410	-0.0742	-5.87
-3.87	.0554	-0.0161	-0.0219	.3440	-0.0509	-0.0566	-3.87
-1.85	.0307	-0.0483	.0100	.4523	-0.0609	-0.0375	-1.85
.17	.1705	-0.0404	.0156	.4998	-0.0778	-0.0247	.17
2.16	.3779	-0.0324	.0116	.5869	-0.0869	-0.1018	2.16
4.20	.4025	-0.0243	.0343	.5516	-0.0927	.0219	4.20
6.24	.3739	-0.0322	.0670	.5157	-0.0907	.0550	6.24
8.23	.4118	-0.0404	.0949	.4296	-0.0965	.1033	8.23
10.27	.5072	-0.0406	.1144	.5211	-0.0973	.1236	10.27
12.28	.6069	-0.0569	.1336	.5943	-0.1052	.1471	12.28
14.29	.6356	-0.0569	.1567	.3895	-0.1084	.1930	14.29
16.31	.7441	-0.0812	.1810	.2960	-0.1130	.2345	16.31
18.32	.7802	-0.0814	.2101	.2631	-0.1186	.2672	18.32
20.38	.7607	-0.0973	.2476	.3644	-0.1275	.2935	20.38
Horizontal tail, left							
Horizontal tail, right							
-9.96	-0.4541	-0.0372	-0.0761	-1.7606	-2.5816	.1222	-9.96
-7.88	-0.4327	-0.0373	-0.0645	-1.7684	-2.5909	.1328	-7.88
-5.87	-0.3998	-0.0431	-0.0482	-1.6928	-2.5940	.1465	-5.87
-3.87	-0.3186	-0.0428	-0.0339	-1.6117	-2.5878	.1596	-3.87
-1.85	-0.2555	-0.0548	-0.0166	-1.5223	-2.6128	.1764	-1.85
.17	.2108	-0.0662	.0042	-1.5211	-2.6059	.1965	.17
2.16	.1904	-0.0718	.0274	-1.4615	-2.5898	.2175	2.16
4.20	.0693	-0.0767	.0467	-1.4311	-2.5764	.2430	4.20
6.24	.0232	-0.0766	.0709	-1.3812	-2.5759	.2652	6.24
8.23	.0100	-0.0823	.0872	-1.3036	-2.5756	.2790	8.23
10.27	.0246	-0.0939	.1067	-1.2261	-2.5753	.2926	10.27
12.28	.0894	-0.1054	.1241	-1.2024	-2.5749	.3138	12.28
14.29	.1303	-0.1111	.1444	-1.1788	-2.5746	.3351	14.29
16.31	.1228	-0.1345	.1779	-1.1012	-2.5709	.3582	16.31
18.32	.1740	-0.1460	.2024	-1.1050	-2.5704	.3883	18.32
20.38	.2667	-0.1691	.2323	-1.5509	-2.5698	.4629	20.38
Vertical tail, upper							
Vertical tail, lower							
-9.96	-0.0390	0.0000	-0.0018	.0930	.0015	-0.0162	-9.96
-7.88	-0.0392	0.0000	-0.0018	.1332	.0011	-0.0009	-7.88
-5.87	-0.0392	0.0000	-0.0018	.0935	.0015	-0.0162	-5.87
-3.87	-0.0392	0.0000	-0.0018	.0935	.0015	-0.0162	-3.87
-1.85	-0.0395	0.0000	-0.0018	.0860	-0.0009	-0.0091	-1.85
.17	-0.0395	0.0000	-0.0018	.1226	.0011	.0051	.17
2.16	-0.0394	0.0000	-0.0018	.0845	.0015	-0.0088	2.16
4.20	-0.0390	0.0000	-0.0018	.0850	-0.0009	-0.0088	4.20
6.24	-0.0390	0.0000	-0.0018	.0839	.0015	-0.0088	6.24
8.23	-0.0390	0.0000	-0.0018	.0796	-0.0009	.0131	8.23
10.27	-0.0390	0.0000	-0.0018	.0932	.0015	-0.0162	10.27
12.28	-0.0390	0.0000	-0.0018	.0703	-0.0009	-0.0054	12.28
14.29	-0.0390	0.0000	-0.0018	.0942	-0.0009	-0.0165	14.29
16.31	-0.0390	0.0000	-0.0018	.0941	-0.0009	-0.0165	16.31
18.32	-0.0390	0.0000	-0.0018	.0850	-0.0009	-0.0088	18.32
20.38	-0.0390	0.0000	-0.0018	.0850	-0.0009	-0.0088	20.38
Speed brakes, upper							
Speed brakes, lower							
-9.96	1.2093	.1522	.6421	.7305	-0.0832	.4523	-9.96
-7.88	1.1549	.1423	.6175	.7184	-0.0833	.4368	-7.88
-5.87	1.1122	.1219	.6016	.7348	-0.0834	.4479	-5.87
-3.87	1.0372	.1219	.5706	.7826	-0.1044	.4731	-3.87
-1.85	.9856	.1021	.5478	.8533	-0.1043	.4918	-1.85
.17	.9536	.0811	.5398	.9482	-0.1243	.5204	.17
2.16	.8894	.1015	.5030	1.0078	-0.1234	.5469	2.16
4.20	.8093	.1214	.4690	1.0819	-0.1434	.5353	4.20
6.24	.7778	.1416	.4680	1.1601	-0.1430	.6223	6.24
8.23	.7768	.1621	.4674	1.2538	-0.1426	.6715	8.23
10.27	.7321	.1828	.4298	1.3329	-0.1633	.7109	10.27
12.28	.5839	.2037	.3277	1.4280	-0.1838	.7539	12.28
14.29	.3909	.2039	.2222	1.5070	-0.2045	.7932	14.29
16.31	.2260	.2035	.1566	1.6002	-0.2247	.8353	16.31
18.32	.1357	.2239	.1151	1.6943	-0.2240	.8777	18.32
20.38	.1200	.2444	.1044	1.8215	-0.2653	.9354	20.38

TABLE VI. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS
FOR CONFIGURATION, WFFHV; $\beta = 0^\circ$, $\delta_v = 0^\circ$ - Continued

(p) $M = 2.29$, $R = 3.24 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_s = 35^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left							
Wing, right							
-10.58	-0.4633	.0350	-0.1727	-0.2098	.0279	-0.1679	-10.58
-8.40	-0.4077	.0267	-0.1412	-0.1644	.0217	-0.1376	-8.40
-6.28	-0.4434	.0203	-0.0985	-0.0110	.0117	-0.1101	-6.28
-4.12	-0.3301	.0141	-0.0626	.0527	.0036	-0.0698	-4.12
-1.94	-0.1939	.0078	-0.0311	.1446	-0.0042	-0.0375	-1.94
.19	-0.0880	.0052	.0044	.2208	-0.0084	-0.0008	.19
2.31	-0.0187	.0000	.0443	.2567	-0.0137	.0411	2.31
4.51	.1225	-.0088	.0742	.3283	-.0189	.0754	4.51
6.66	.2156	-.0185	.1081	.4083	-.0288	.1085	6.66
8.78	.2774	-.0253	.1400	.4390	-.0364	.1443	8.78
10.97	.3077	-.0330	.1766	.4936	-.0438	.1782	10.97
13.14	.3434	-.0408	.2101	.5594	-.0511	.2081	13.14
15.31	.4041	-.0491	.2396	.6404	-.0591	.2361	15.31
17.49	.4515	-.0573	.2739	.7168	-.0678	.2668	17.49
19.65	.4844	-.0653	.3042	.7736	-.0752	.2963	19.65
21.85	.5544	-.0752	.3322	.8446	-.0838	.3242	21.85
Horizontal tail, left							
Horizontal tail, right							
-10.58	-0.2968	.0247	-.0908	-0.2609	.0296	-0.0857	-10.58
-8.40	-0.2273	.0175	-.0671	-0.2012	.0249	-0.0654	-8.40
-6.28	-0.1858	.0099	-.0429	-0.1493	.0141	-0.0386	-6.28
-4.12	-0.1567	.0024	-.0295	-0.1190	.0091	-0.0256	-4.12
-1.94	-0.1325	-.0036	-.0127	-0.0856	.0050	-0.0105	-1.94
.19	-0.0872	-.0150	.0108	-0.0525	-.0044	.0101	.19
2.31	-0.0301	-.0286	.0396	.0090	-.0174	.0380	2.31
4.51	.0212	-.0478	.0736	.1020	-.0348	.0707	4.51
6.66	.0930	-.0642	.1076	.1908	-.0520	.1041	6.66
8.78	.1752	-.0786	.1370	.2595	-.0686	.1335	8.78
10.97	.2371	-.0948	.1682	.3237	-.0832	.1646	10.97
13.14	.2978	-.1111	.1964	.3862	-.1035	.1936	13.14
15.31	.3535	-.1318	.2308	.4880	-.1282	.2292	15.31
17.49	.4527	-.1686	.2755	.5828	-.1626	.2733	17.49
19.65	.5483	-.2016	.3195	.6808	-.1927	.3160	19.65
21.85	.6469	-.2319	.3636	.7347	-.2194	.3578	21.85
Vertical tail, upper							
Vertical tail, lower							
-10.58	.0053	-.0020	-.0032	.0327	.0055	-.0262	-10.58
-8.40	.0051	-.0018	-.0032	.0290	.0052	-.0253	-8.40
-6.28	.0114	-.0018	-.0025	.0290	.0042	-.0239	-6.28
-4.12	.0061	-.0015	-.0016	.0289	.0030	-.0225	-4.12
-1.94	.0073	-.0013	-.0009	.0264	.0018	-.0210	-1.94
.19	.0065	-.0005	-.0014	.0241	.0006	-.0196	.19
2.31	.0072	-.0003	-.0009	.0236	.0006	-.0182	2.31
4.51	.0061	-.0000	-.0005	.0238	.0002	-.0182	4.51
6.66	.0056	-.0005	-.0005	.0198	.0004	-.0171	6.66
8.78	.0056	.0013	-.0005	.0184	.0004	-.0165	8.78
10.97	.0054	.0020	-.0005	.0231	.0002	-.0168	10.97
13.14	.0048	.0018	-.0002	.0227	.0009	-.0165	13.14
15.31	.0065	.0010	-.0000	.0282	.0009	-.0182	15.31
17.49	.0042	.0015	-.0000	.0236	-.0002	-.0145	17.49
19.65	.0058	.0025	-.0005	.0278	-.0011	-.0154	19.65
21.85	.0087	.0033	-.0018	.0362	-.0020	-.0151	21.85
Speed brakes, upper							
Speed brakes, lower							
-10.58	1.1908	-.0220	.5948	1.0679	-.1311	.5899	-10.58
-8.40	1.1706	-.0246	.5825	1.0977	-.1226	.5970	-8.40
-6.28	1.1548	-.0327	.5787	1.0957	-.1283	.5887	-6.28
-4.12	1.1618	-.0433	.5772	1.1300	-.1330	.5984	-4.12
-1.94	1.1578	-.0487	.5759	1.1669	-.1413	.6149	-1.94
.19	1.1408	-.0544	.5768	1.1993	-.1443	.6230	.19
2.31	1.1133	-.0545	.5717	1.2441	-.1490	.6330	2.31
4.51	1.0966	-.0572	.5746	1.2832	-.1484	.6429	4.51
6.66	1.0397	-.0679	.5844	1.3197	-.1504	.6524	6.66
8.78	1.0218	-.0707	.5838	1.3613	-.1499	.6657	8.78
10.97	1.0273	-.0600	.5545	1.4205	-.1553	.6885	10.97
13.14	.9192	-.0463	.4853	1.4698	-.1572	.7089	13.14
15.31	.7784	-.0298	.3892	1.5286	-.1624	.7337	15.31
17.49	.5541	-.0266	.2443	1.5897	-.1674	.7582	17.49
19.65	.3687	-.0267	.1632	1.6446	-.1726	.7803	19.65
21.85	.2621	-.0070	.1159	1.6270	-.1776	.8031	21.85

REF ID: A65102

69

TABLE VI. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS
FOR CONFIGURATION, WFFHV; $\beta = 0^\circ$, $\delta_v = 0^\circ$ - Continued

(q) $M = 2.98$, $R = 4.06 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_s = 35^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-10.50	-0.3428	0.0302	-0.1316	-0.3103	0.0322	-0.1192	-10.50
-8.34	-0.3020	0.0261	-0.1041	-0.2369	0.0263	-0.0957	-8.34
-6.24	-0.2509	0.0207	-0.0766	-0.1791	0.0211	-0.0690	-6.24
-4.05	-0.2447	0.0149	-0.0443	-0.1103	0.0139	-0.0407	-4.05
-1.96	-0.1426	0.0094	-0.0231	-0.0084	0.0064	-0.0219	-1.96
.17	-0.0323	0.0068	-0.0036	0.0365	0.0026	0.0028	.17
2.31	-0.0473	0.0040	0.0179	0.0582	-0.0008	0.0303	2.31
4.45	-0.1536	-0.0024	0.0383	0.1432	-0.0078	0.0518	4.45
6.59	-0.2489	-0.0078	0.0626	0.1833	-0.0135	0.0801	6.59
8.70	-0.2659	-0.0139	0.0957	0.2064	-0.0163	0.1097	8.70
10.86	-0.2924	-0.0191	0.1292	0.2643	-0.0211	0.1404	10.86
13.02	-0.3406	-0.0277	0.1575	0.3281	-0.0273	0.1683	13.02
15.17	-0.4039	-0.0344	0.1830	0.3749	-0.0340	0.1958	15.17
17.34	-0.4521	-0.0402	0.2185	0.4368	-0.0430	0.2293	17.34
19.52	-0.5205	-0.0493	0.2464	0.5313	-0.0517	0.2560	19.52
21.69	-0.5684	-0.0593	0.2799	0.6145	-0.0631	0.2867	21.69
Horizontal tail, left				Horizontal tail, right			
-10.50	-0.2425	0.0300	-0.0858	-0.2096	0.0295	-0.0817	-10.50
-8.34	-0.1950	0.0267	-0.0720	-0.1768	0.0269	-0.0728	-8.34
-6.24	-0.1455	0.0211	-0.0528	-0.1204	0.0216	-0.0537	-6.24
-4.05	-0.1138	0.0147	-0.0337	-0.0711	0.0155	-0.0341	-4.05
-1.96	-0.0924	0.0054	-0.0159	-0.0647	0.0081	-0.0165	-1.96
.17	-0.0585	-0.0031	0.0054	-0.0234	0.0001	0.0046	.17
2.31	-0.0120	-0.0154	0.0311	0.0228	-0.0101	0.0284	2.31
4.45	-0.0261	-0.0312	0.0596	0.0860	-0.0243	0.0549	4.45
6.59	-0.0860	-0.0446	0.0884	0.1569	-0.0359	0.0833	6.59
8.70	-0.1365	-0.0559	0.1126	0.2144	-0.0487	0.1076	8.70
10.86	-0.1950	-0.0653	0.1309	0.2617	-0.0584	0.1271	10.86
13.02	-0.2391	-0.0789	0.1529	0.3164	-0.0706	0.1470	13.02
15.17	-0.2774	-0.0903	0.1742	0.3758	-0.0856	0.1692	15.17
17.34	-0.3483	-0.1105	0.2060	0.4493	-0.1041	0.1978	17.34
19.52	-0.4166	-0.1262	0.2321	0.4986	-0.1201	0.2248	19.52
21.69	-0.4712	-0.1455	0.2638	0.5782	-0.1378	0.2535	21.69
Vertical tail, upper				Vertical tail, lower			
-10.50	-0.0044	0.0013	-0.0018	0.0110	0.0006	-0.0111	-10.50
-8.34	-0.0037	0.0010	-0.0016	0.0105	0.0006	-0.0097	-8.34
-6.24	-0.0025	0.0005	-0.0011	0.0075	0.0006	-0.0085	-6.24
-4.05	-0.0019	0.0002	-0.0009	0.0096	0.0009	-0.0102	-4.05
-1.96	0.0012	0.0000	-0.0014	0.0061	0.0006	-0.0094	-1.96
.17	0.0000	0.0000	0.0000	0.0070	0.0004	-0.0088	.17
2.31	0.0006	0.0000	0.0002	0.0056	0.0009	-0.0080	2.31
4.45	0.0006	0.0000	0.0002	0.0066	0.0009	-0.0088	4.45
6.59	0.0028	-0.0002	0.0002	0.0086	0.0009	-0.0094	6.59
8.70	0.0019	-0.0002	0.0009	0.0154	0.0011	-0.0094	8.70
10.86	0.0025	-0.0005	0.0011	0.0182	0.0011	-0.0108	10.86
13.02	0.0023	-0.0002	0.0011	0.0229	0.0006	-0.0111	13.02
15.17	0.0023	0.0000	0.0011	0.0254	0.0002	-0.0111	15.17
17.34	0.0019	0.0007	0.0021	0.0250	-0.0002	-0.0100	17.34
19.52	0.0012	0.0010	0.0018	0.0261	-0.0007	-0.0094	19.52
21.69	0.0017	0.0003	0.0030	0.0257	-0.0013	-0.0080	21.69
Speed brakes, upper				Speed brakes, lower			
-10.50	1.2682	-0.1448	0.6766	0.8579	-0.0856	0.4849	-10.50
-8.34	1.2210	-0.1449	0.6454	0.8869	-0.0904	0.4861	-8.34
-6.24	1.1821	-0.1423	0.6195	0.9251	-0.0955	0.5085	-6.24
-4.05	1.1259	-0.1421	0.5807	0.9995	-0.1001	0.5370	-4.05
-1.96	1.0789	-0.1446	0.5491	1.0650	-0.1072	0.5550	-1.96
.17	1.0551	-0.1495	0.5353	1.1022	-0.1110	0.5636	.17
2.31	.9975	-0.1421	0.5142	1.1655	-0.1164	0.5836	2.31
4.45	.9638	-0.1422	0.5113	1.2356	-0.1185	0.6145	4.45
6.59	.9336	-0.1448	0.5083	1.3130	-0.1259	0.6513	6.59
8.70	.8968	-0.1271	0.4966	1.3915	-0.1358	0.6907	8.70
10.86	.8509	-0.1121	0.4734	1.4780	-0.1458	0.7334	10.86
13.02	.6569	-0.0888	0.3415	1.5631	-0.1557	0.7745	13.02
15.17	.4689	-0.0806	0.2153	1.6467	-0.1602	0.8131	15.17
17.34	.2774	-0.0731	0.1274	1.7470	-0.1700	0.8582	17.34
19.52	.2260	-0.0655	0.0987	1.8493	-0.1826	0.9063	19.52
21.69	.1895	-0.0730	0.0803	1.9528	-0.1895	0.9523	21.69

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 TABLE VI. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS
 FOR CONFIGURATION, WFFVv; $\beta = 0^\circ$, $\delta_v = 0^\circ$ - Concluded

(r) $M = 4.65$, $R = 4.43 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_s = 35^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left							
Wing, right							
-9.63	-0.2088	.0173	-.0706	-.1368	.0183	-.0718	-9.63
-7.49	-.1520	.0145	-.0562	-.1069	.0169	-.0566	-7.49
-5.41	-.1300	.0117	-.0391	-.0748	.0123	-.0411	-5.41
-3.36	-.0736	.0074	-.0259	-.0529	.0080	-.0219	-3.36
-1.33	-.0955	.0044	-.0020	-.0223	.0048	-.0072	-1.33
.77	-.0207	.0014	.0068	.0187	-.0018	.0048	.77
2.79	.0245	.0014	.0207	.0243	.0026	.0223	2.79
4.87	.1051	-.0002	.0315	.0552	-.0008	.0395	4.87
6.96	.1651	-.0032	.0467	.1001	-.0010	.0574	6.96
8.98	.2140	-.0066	.0634	.1095	-.0030	.0782	8.98
11.08	.2661	-.0097	.0825	.1320	-.0042	.0993	11.08
13.15	.2972	-.0143	.1061	.1699	-.0068	.1220	13.15
15.24	.3073	-.0189	.1344	.1611	-.0101	.1495	15.24
17.34	.3991	-.0271	.1615	.2716	-.0187	.1782	17.34
19.46	.4669	-.0338	.1910	.3572	-.0269	.2089	19.46
21.58	.5136	-.0420	.2253	.4184	-.0342	.2412	21.58
Horizontal tail, left							
Horizontal tail, right							
-9.63	-.1118	.0226	-.0513	-.0910	.0183	-.0541	-9.63
-7.49	-.0792	.0182	-.0432	-.0711	.0121	-.0441	-7.49
-5.41	-.0521	.0174	-.0342	-.0447	.0089	-.0343	-5.41
-3.36	-.0218	.0131	-.0221	-.0232	.0061	-.0217	-3.36
-1.33	.0110	.0067	-.0089	-.0082	.0008	-.0082	-1.33
.77	.0253	.0022	.0059	.0222	-.0032	.0052	.77
2.79	.0559	-.0019	.0212	.0675	-.0070	.0189	2.79
4.87	.0723	-.0106	.0359	.0916	-.0132	.0340	4.87
6.96	.0908	-.0161	.0469	.1319	-.0183	.0439	6.96
8.98	.1038	-.0237	.0603	.1575	-.0225	.0557	8.98
11.08	.1299	-.0347	.0798	.2034	-.0329	.0733	11.08
13.15	.1623	-.0479	.1019	.2393	-.0432	.0940	13.15
15.24	.2012	-.0598	.1254	.2990	-.0545	.1148	15.24
17.34	.2575	-.0726	.1551	.3467	-.0681	.1442	17.34
19.46	.3202	-.0835	.1809	.4160	-.0793	.1691	19.46
21.58	.3728	-.0943	.2089	.4842	-.0917	.1962	21.58
Vertical tail, upper							
Vertical tail, lower							
-9.63	-.0009	.0007	-.0034	.0261	-.0002	-.0068	-9.63
-7.49	-.0009	.0010	-.0034	.0217	-.0002	-.0063	-7.49
-5.41	-.0023	.0007	-.0025	.0129	-.0002	-.0040	-5.41
-3.36	-.0037	.0007	-.0016	.0112	-.0002	-.0026	-3.36
-1.33	-.0014	.0003	-.0021	.0101	-.0002	-.0034	-1.33
.77	.0025	.0000	-.0034	.0129	-.0002	-.0040	.77
2.79	.0011	.0000	-.0028	.0129	-.0002	-.0040	2.79
4.87	.0011	-.0003	.0028	.0145	-.0002	-.0054	4.87
6.96	.0011	-.0003	.0028	.0245	-.0002	-.0077	6.96
8.98	.0011	-.0003	.0028	.0170	-.0002	-.0091	8.98
11.08	.0011	.0000	-.0028	.0170	-.0002	-.0091	11.08
13.15	.0011	.0000	-.0028	.0316	-.0002	-.0097	13.15
15.24	.0009	.0003	-.0028	.0170	-.0002	-.0091	15.24
17.34	.0025	.0003	-.0009	.0170	-.0002	-.0091	17.34
19.46	.0025	.0003	-.0009	.0245	-.0002	-.0077	19.46
21.58	.0000	.0010	-.0030	.0245	-.0002	-.0077	21.58
Speed brakes, upper							
Speed brakes, lower							
-9.63	1.3807	-.1277	.7352	.4879	-.0171	.2374	-9.63
-7.49	1.2631	-.1200	.6786	.6995	-.0569	.3914	-7.49
-5.41	1.1778	-.1199	.6261	.7562	-.0845	.4257	-5.41
-3.36	1.1204	-.1045	.5970	.8657	-.1003	.5040	-3.36
-1.33	1.0512	-.1044	.5595	.9670	-.0873	.5314	-1.33
.77	.9545	-.0812	.5024	1.0626	-.0982	.5629	.77
2.79	.7964	-.0542	.4085	1.1687	-.1134	.6148	2.79
4.87	.6423	-.0427	.3370	1.3125	-.1408	.7003	4.87
6.96	.5057	-.0542	.2776	1.4300	-.1521	.7626	6.96
8.98	.3935	-.0349	.2158	1.5528	-.1673	.8286	8.98
11.08	.2164	-.0151	.0886	1.6971	-.1825	.9038	11.08
13.15	.1219	-.0344	.0530	1.8671	-.1936	.9925	13.15
15.24	.0712	-.0345	.0361	2.0089	-.2086	1.0607	15.24
17.34	.0542	-.0346	.0334	2.2471	-.2391	1.1850	17.34
19.46	.0568	-.0346	.0377	2.4511	-.2657	1.2873	19.46
21.58	.0646	-.0232	.0419	2.6135	-.2845	1.3628	21.58

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71

TABLE VII. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS

FOR CONFIGURATION, WFHVv; $\beta = -6.1^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$ (a) $M = 2.29$, $R = 0.51 \times 10^6$, $\delta_s = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
	Wing, left			Wing, right			
-9.91	.0969	.0464	-.1922	-.2810	.0481	-.1364	-9.91
-7.90	.1984	.0400	-.1627	-.6434	.0567	-.0829	-7.90
-5.86	.2439	.0267	-.1296	-.5006	.0481	-.0638	-5.86
-3.88	.2399	.0265	-.0825	-.5590	.0440	-.0136	-3.88
-1.83	.1757	.0197	-.0391	-.5215	.0450	.0207	-1.83
.17	.2533	.0267	-.0036	-.2992	.0279	.0319	.17
2.18	.2629	.0199	.0279	-.3414	.0235	.0742	2.18
4.22	.3063	.0131	.0614	-.3584	.0183	.1112	4.22
6.26	.3939	.0062	.0857	-.3145	.0121	.1439	6.26
8.26	.4350	.0062	.1188	-.3365	.0070	.1754	8.26
10.29	.5347	-.0072	.1487	-.2950	-.0060	.2093	10.29
12.30	.6809	-.0143	.1675	-.2084	-.0064	.2381	12.30
14.33	.8235	-.0215	.1854	-.1773	-.0197	.2620	14.33
16.36	.8175	-.0281	.2265	-.0387	-.0283	.2811	16.36
18.38	.8568	-.0350	.2552	-.0656	-.0336	.3086	18.38
20.42	.8929	-.0418	.2831	-.0676	-.0422	.3226	20.42
	Horizontal tail, left			Horizontal tail, right			
-9.91	-.3417	.0665	-.1185	-.1491	.0271	-.0765	-9.91
-7.90	-.2864	.0625	-.1016	-.1152	.0181	-.0495	-7.90
-5.86	-.2351	.0480	-.0778	-.0537	.0137	-.0335	-5.86
-3.88	-.1553	.0382	-.0618	-.0168	.0045	-.0180	-3.88
-1.83	-.0826	.0289	-.0371	-.0836	-.0046	.0002	-1.83
.17	-.0852	.0144	-.0059	.1208	-.0137	.0239	.17
2.18	.0383	.0003	.0201	.1563	-.0230	.0473	2.18
4.22	.1064	-.0093	.0539	.1918	-.0320	.0708	4.22
6.26	.1701	-.0283	.0835	.2894	-.0404	.0919	6.26
8.26	.2331	-.0424	.1139	.3210	-.0539	.1199	8.26
10.29	.2786	-.0568	.1463	.4186	-.0677	.1422	10.29
12.30	.3132	-.0813	.1829	.4539	-.0819	.1672	12.30
14.33	.3569	-.1054	.2127	.5120	-.0910	.1830	14.33
16.36	.3784	-.1296	.2541	.5505	-.0954	.2020	16.36
18.38	.4160	-.1491	.2932	.6096	-.1046	.2185	18.38
20.42	.4591	-.1585	.3259	.6217	-.1136	.2450	20.42
	Vertical tail, upper			Vertical tail, lower			
-9.91	.2806	-.0373	.1241	.1770	-.0116	.0805	-9.91
-7.90	.2520	-.0361	.1174	.1586	-.0135	.0777	-7.90
-5.86	.2452	-.0347	.1071	.1805	-.0159	.0811	-5.86
-3.88	.2240	-.0329	.0973	.1789	-.0157	.0802	-3.88
-1.83	.1977	-.0330	.0915	.1841	-.0159	.0845	-1.83
.17	.1974	-.0334	.0844	.1612	-.0159	.0907	.17
2.18	.1878	-.0334	.0798	.2166	-.0144	.0970	2.18
4.22	.1906	-.0350	.0741	.2278	-.0146	.1055	4.22
6.26	.1758	-.0330	.0741	.2511	-.0155	.1118	6.26
8.26	.1792	-.0378	.0686	.2380	-.0155	.1254	8.26
10.29	.1948	-.0443	.0617	.2590	-.0159	.1175	10.29
12.30	.2016	-.0494	.0642	.2763	-.0164	.1300	12.30
14.33	.1971	-.0551	.0755	.3006	-.0170	.1363	14.33
16.36	.1996	-.0581	.0835	.2971	-.0170	.1454	16.36
18.38	.1652	-.0410	.0892	.3167	-.0173	.1482	18.38
20.42	.1344	-.0306	.0684	.3350	-.0177	.1502	20.42

TABLE VII. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS

FOR CONFIGURATION, WFHVv; $\beta = -6.1^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_V = 0^\circ$ - Continued(b) $M = 2.98$, $R = 0.51 \times 10^6$, $\delta_S = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-9.88	.1574	.0474	-.1408	-.7371	.0678	-.0750	-9.88
-7.85	.1855	.0476	-.1180	-.7836	.0784	-.0475	-7.85
-5.87	.2258	.0394	-.0893	-.6871	.0690	-.0275	-5.87
-3.85	.2593	.0476	-.0606	-.7210	.0629	.0048	-3.85
-1.85	.2633	.0472	-.0263	-.6254	.0619	.0251	-1.85
.17	.2944	.0235	-.0104	-.7172	.0487	.0634	.17
2.20	.4689	.0155	-.0116	-.6829	.0326	.0861	2.20
4.22	.4984	.0155	-.0112	-.5339	.0306	.1009	4.22
6.22	.5311	.0233	.0399	-.5660	.0243	.1332	6.22
8.23	.5688	.0153	.0682	-.6691	.0279	.1691	8.23
10.26	.6695	.0151	.0929	-.7072	.0213	.1954	10.26
12.27	.7042	.0149	.1212	-.6113	.0121	.2153	12.27
14.29	.8763	-.0014	.1424	-.6502	.0058	.2416	14.29
16.31	1.0447	-.0020	.1639	-.4912	.0038	.2584	16.31
18.32	1.0790	-.0022	.1922	-.4627	-.0040	.2811	18.32
20.36	1.1167	-.0101	.2201	-.4984	-.0018	.3138	20.36
Horizontal tail, left				Horizontal tail, right			
-9.88	-.3856	.0564	-.0922	-.0820	.0213	-.0762	-9.88
-7.85	-.3631	.0566	-.0803	-.0359	.0161	-.0536	-7.85
-5.87	-.2565	.0453	-.0689	-.0190	.0051	-.0314	-5.87
-3.85	-.1876	.0401	-.0479	-.0545	-.0002	-.0176	-3.85
-1.85	-.1571	.0283	-.0205	-.0737	-.0057	-.0010	-1.85
.17	-.0782	.0111	.0006	.1218	-.0109	.0164	.17
2.20	-.0040	.0001	.0258	.1651	-.0218	.0346	2.20
4.22	.0389	.0059	.0498	.2351	-.0328	.0541	4.22
6.22	.0894	-.0054	.0741	.2736	-.0493	.0823	6.22
8.23	.1870	-.0108	.0963	.3429	-.0601	.1019	8.23
10.26	.2188	-.0281	.1235	.3892	-.0654	.1195	10.26
12.27	.2407	-.0396	.1463	.4062	-.0764	.1363	12.27
14.29	.2936	-.0567	.1707	.4527	-.0816	.1538	14.29
16.31	.3752	-.0737	.1959	.4689	-.0925	.1803	16.31
18.32	.4092	-.0966	.2229	.5601	-.1088	.2012	18.32
20.36	.4411	-.1138	.2501	.5239	-.1198	.2304	20.36
Vertical tail, upper				Vertical tail, lower			
-9.88	.2915	-.0636	.1172	.1878	-.0105	.0654	-9.88
-7.85	.2654	-.0582	.1135	.1588	-.0103	.0723	-7.85
-5.87	.2478	-.0545	.1053	.1654	-.0105	.0771	-5.87
-3.85	.2448	-.0491	.0961	.1724	-.0107	.0822	-3.85
-1.85	.2263	-.0453	.0876	.1848	-.0109	.0919	-1.85
.17	.2150	-.0417	.0823	.2098	-.0113	.0961	.17
2.20	.2120	-.0384	.0732	.2076	-.0164	.1067	2.20
4.22	.2153	-.0348	.0665	.2408	-.0194	.1161	4.22
6.22	.2035	-.0330	.0610	.2383	-.0245	.1266	6.22
8.23	.1832	-.0311	.0599	.2653	-.0297	.1306	8.23
10.26	.1832	-.0311	.0681	.2796	-.0325	.1402	10.26
12.27	.1705	-.0311	.0619	.3055	-.0362	.1442	12.27
14.29	.1702	-.0293	.0622	.3151	-.0413	.1351	14.29
16.31	.1304	-.0237	.0601	.3452	-.0443	.1422	16.31
18.32	.1050	-.0237	.0479	.3581	-.0470	.1513	18.32
20.36	.1022	-.0239	.0383	.4107	-.0505	.1613	20.36

REF ID: A64525
REF ID: A64525

TABLE VII. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS

FOR CONFIGURATION, WFHVv; $\beta = -6.1^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$ - Continued(c) $M = 2.29$, $R = 3.24 \times 10^6$, $\delta_s = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg	
	Wing, left				Wing, right			
-10.69	-0.4376	0.0384	-0.1651	-0.3257	0.0324	-0.1591	-10.69	
-8.41	-0.3650	0.0330	-0.1332	-0.3063	0.0277	-0.1260	-8.41	
-6.23	-0.3815	0.0259	-0.0893	-0.2387	0.0213	-0.0925	-6.23	
-4.08	-0.2609	0.0187	-0.0554	-0.1498	0.0113	-0.0578	-4.08	
-1.96	-0.1087	0.0121	-0.0263	-0.0375	0.0040	-0.0251	-1.96	
.19	-0.0273	0.0094	-0.0096	-0.0746	0.0032	-0.032	.19	
2.31	.0750	0.0010	.0387	.0764	0.0054	.0486	2.31	
4.49	.2048	-0.0078	.0654	.1797	-0.0088	.0821	4.49	
6.67	.3063	-0.0159	.0981	.2327	-0.0195	.1208	6.67	
8.82	.3931	-0.0243	.1332	.3484	-0.0320	.1519	8.82	
10.97	.4974	-0.0330	.1659	.3965	-0.0384	.1798	10.97	
13.13	.5479	-0.0402	.2022	.4268	-0.0476	.2062	13.13	
15.31	.5971	-0.0485	.2369	.4806	-0.0565	.2305	15.31	
17.53	.6579	-0.0595	.2791	.5471	-0.0653	.2592	17.53	
19.73	.7036	-0.0692	.3174	.6065	-0.0722	.2819	19.73	
21.96	.7788	-0.0808	.3541	.6705	-0.0802	.3086	21.96	
	Horizontal tail, left				Horizontal tail, right			
-10.69	-0.3100	0.0704	-0.1476	-0.1617	0.0395	-0.0868	-10.69	
-8.41	-0.2271	0.0601	-0.1233	-0.0904	0.0266	-0.0589	-8.41	
-6.23	-0.1641	0.0521	-0.0994	-0.0631	0.0186	-0.0386	-6.23	
-4.08	-0.1319	0.0415	-0.0808	-0.0325	0.0108	-0.0199	-4.08	
-1.96	-0.1052	0.0279	-0.0548	-0.0100	0.0001	0.0019	-1.96	
.19	-0.0455	0.0089	-0.0185	-0.0583	-0.0113	0.0298	.19	
2.31	-0.0046	-0.0084	.0181	.1212	-0.0213	.0560	2.31	
4.49	.0529	-0.0266	.0554	.1892	-0.0342	.0834	4.49	
6.67	.1226	-0.0471	.0935	.2631	-0.0486	.1119	6.67	
8.82	.1966	-0.0659	.1265	.3243	-0.0614	.1382	8.82	
10.97	.2479	-0.0865	.1659	.3940	-0.0759	.1667	10.97	
13.13	.3613	-0.1090	.1992	.4523	-0.0828	.1867	13.13	
15.31	.4523	-0.1348	.2366	.5082	-0.0893	.2042	15.31	
17.53	.5279	-0.1614	.2838	.5603	-0.1007	.2283	17.53	
19.73	.6297	-0.1788	.3234	.6249	-0.1153	.2521	19.73	
21.96	.7249	-0.1902	.3573	.6916	-0.1312	.2781	21.96	
	Vertical tail, upper				Vertical tail, lower			
-10.69	.3161	-0.0437	.1436	.1885	-0.0378	.0651	-10.69	
-8.41	.2943	-0.0406	.1324	.1864	-0.0367	.0640	-8.41	
-6.23	.2739	-0.0376	.1220	.1867	-0.0339	.0654	-6.23	
-4.08	.2564	-0.0363	.1131	.1906	-0.0304	.0680	-4.08	
-1.96	.2396	-0.0352	.1035	.2000	-0.0273	.0711	-1.96	
.19	.2274	-0.0352	.0961	.2152	-0.0243	.0768	.19	
2.31	.2125	-0.0356	.0906	.2273	-0.0238	.0848	2.31	
4.49	.2013	-0.0355	.0849	.2460	-0.0232	.0942	4.49	
6.67	.1983	-0.0386	.0821	.2667	-0.0236	.1050	6.67	
8.82	.1962	-0.0435	.0805	.2889	-0.0242	.1169	8.82	
10.97	.1920	-0.0491	.0812	.3048	-0.0240	.1283	10.97	
13.13	.1954	-0.0554	.0835	.3237	-0.0242	.1377	13.13	
15.31	.2052	-0.0618	.0901	.3392	-0.0245	.1485	15.31	
17.53	.1618	-0.0473	.0881	.3527	-0.0242	.1559	17.53	
19.73	.1341	-0.0355	.0720	.3585	-0.0221	.1613	19.73	
21.96	.1209	-0.0298	.0638	.3675	-0.0203	.1658	21.96	

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 TABLE VII. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS
 FOR CONFIGURATION, WFFHV; $\beta = -6.1^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_V = 0^\circ$ - Continued

(d) $M = 2.98$, $R = 4.06 \times 10^6$, $\delta_S = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg	
	Wing, left				Wing, right			
-10.55	-0.3251	.0342	-0.1364	-0.3131	.0348	-0.1212	-10.55	
-8.35	-0.2513	.0292	-0.1101	-0.2926	.0277	-0.0969	-8.35	
-6.24	-0.1691	.0229	-0.0845	-0.2676	.0245	-0.0674	-6.24	
-4.11	-0.1629	.0161	-0.0526	-0.1913	.0191	-0.0403	-4.11	
-1.97	-0.0654	.0107	-0.0295	-0.1193	.0127	-0.0171	-1.97	
.17	.0225	.0070	-0.0080	-0.0421	.0074	.0076	.17	
2.29	.0977	.0018	.0159	-0.0331	.0127	.0387	2.29	
4.43	.2050	-.0034	.0367	.0361	.0095	.0626	4.43	
6.61	.3361	-.0103	.0602	.0911	-.0008	.0865	6.61	
8.70	.3638	-.0167	.0937	.1376	-.0076	.1120	8.70	
13.04	.4743	-.0312	.1603	.2635	-.0243	.1627	13.04	
15.18	.5287	-.0382	.1926	.2964	-.0310	.1842	15.18	
17.39	.6091	-.0476	.2289	.3438	-.0388	.2117	17.39	
19.57	.6952	-.0555	.2616	.4029	-.0462	.2349	19.57	
21.78	.7788	-.0659	.2983	.4978	-.0559	.2612	21.78	
	Horizontal tail, left				Horizontal tail, right			
-10.55	-.2695	.0543	-0.1156	-0.1333	.0373	-0.0802	-10.55	
-8.35	-.2168	.0481	-0.1019	-0.0826	.0236	-0.0568	-8.35	
-6.24	-.1671	.0461	-0.0884	-0.0287	.0156	-0.0329	-6.24	
-4.11	-.1146	.0385	-0.0662	-0.0448	.0102	-0.0166	-4.11	
-1.97	-.0832	.0249	-0.0421	.0134	.0006	.0001	-1.97	
.17	-.0351	.0114	-0.0141	.0489	-.0067	.0177	.17	
2.29	.0128	.0000	.0123	.0898	-.0154	.0388	2.29	
4.43	.0537	-.0135	.0376	.1581	-.0270	.0604	4.43	
6.61	.0992	-.0271	.0638	.2249	-.0399	.0879	6.61	
8.70	.1517	-.0391	.0910	.2764	-.0520	.1100	8.70	
13.04	.2571	-.0691	.1474	.3589	-.0684	.1486	13.04	
15.18	.2928	-.0821	.1704	.4112	-.0792	.1688	15.18	
17.39	.3659	-.0998	.1985	.4780	-.0911	.1932	17.39	
19.57	.4363	-.1156	.2257	.5329	-.1042	.2185	19.57	
21.78	.4966	-.1343	.2570	.5924	-.1177	.2474	21.78	
	Vertical tail, upper				Vertical tail, lower			
-10.55	.2952	-.0659	.1296	.1366	-.0267	.0560	-10.55	
-8.35	.2774	-.0607	.1218	.1436	-.0258	.0583	-8.35	
-6.24	.2574	-.0554	.1140	.1551	-.0253	.0640	-6.24	
-4.11	.2448	-.0507	.1069	.1670	-.0255	.0697	-4.11	
-1.97	.2280	-.0455	.1007	.1829	-.0262	.0765	-1.97	
.17	.2117	-.0399	.0927	.2046	-.0288	.0819	.17	
2.29	.1927	-.0355	.0856	.2236	-.0314	.0907	2.29	
4.43	.1787	-.0314	.0787	.2460	-.0350	.1001	4.43	
6.61	.1607	-.0289	.0720	.2621	-.0402	.1092	6.61	
8.70	.1422	-.0291	.0677	.2794	-.0469	.1166	8.70	
13.04	.1332	-.0345	.0596	.3287	-.0611	.1368	13.04	
15.18	.1300	-.0391	.0619	.3450	-.0625	.1462	15.18	
17.39	.1098	-.0340	.0573	.3705	-.0664	.1587	17.39	
19.57	.1024	-.0360	.0557	.3901	-.0692	.1701	19.57	
21.78	.1027	-.0371	.0557	.4148	-.0734	.1838	21.78	

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75

TABLE VII. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS

FOR CONFIGURATION, WFHVv; $\beta = -6.1^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$ - Continued(e) $M = 4.65$, $R = 4.43 \times 10^6$, $\delta_s = 0^\circ$

α , deg	C_N	C_M	C_B	\bar{C}_N	C_M	C_B	α , deg
	Wing, left			Wing, right			
-9.56	-0.1958	.0145	-.0821	.0257	.0090	-.0718	-9.56
-7.47	-0.1813	.0072	-.0610	-.0439	.0095	-.0506	-7.47
-5.38	-0.1703	.0042	-.0419	-.0265	.0068	-.0351	-5.38
-3.33	-0.1350	.0014	-.0243	.0132	.0050	-.0227	-3.33
-1.27	-0.1219	-.0002	-.0032	.0209	.0026	-.0056	-1.27
.78	-0.0876	-.0030	.0136	.0842	-.0028	.0044	.78
2.83	-0.0540	-.0030	.0303	.0999	-.0040	.0187	2.83
4.89	.0493	-.0046	.0391	.1181	-.0056	.0355	4.89
6.98	.0324	-.0062	.0518	.1243	-.0080	.0526	6.98
9.04	.0171	-.0094	.0718	.1560	.0127	.0690	9.04
11.11	.02375	-.0127	.0913	.1765	-.0169	.0865	11.11
13.21	.03199	-.0175	.1120	.2250	-.0219	.1065	13.21
15.29	.03909	-.0211	.1348	.2635	-.0263	.1292	15.29
17.40	.04240	-.0275	.1699	.3101	-.0312	.1599	17.40
19.52	.04689	-.0338	.2030	.3430	-.0352	.1914	19.52
21.62	.05530	-.0408	.2341	.4388	-.0436	.2197	21.62
	Horizontal tail, left			Horizontal tail, right			
-9.56	-0.1661	.0280	-.0652	-.1158	.0206	-.0444	-9.56
-7.47	-0.1313	.0226	-.0534	-.0864	.0143	-.0329	-7.47
-5.38	-0.1038	.0215	-.0418	-.0465	.0093	-.0190	-5.38
-3.33	-0.0539	.0163	-.0303	-.0198	.0062	-.0100	-3.33
-1.27	-0.0204	.0110	-.0191	-.0100	.0001	.0016	-1.27
.78	.0064	.0055	-.0063	.0196	-.0050	.0166	.78
2.83	.0335	-.0031	.0088	.0587	-.0112	.0312	2.83
4.89	.0585	-.0141	.0303	.0834	-.0174	.0427	4.89
6.98	.0886	-.0227	.0471	.1084	-.0225	.0547	6.98
9.04	.1172	-.0293	.0610	.1479	-.0288	.0666	9.04
11.11	.1495	-.0369	.0761	.1764	-.0362	.0821	11.11
13.21	.1820	-.0445	.0943	.2329	-.0454	.0999	13.21
15.29	.2020	-.0511	.1141	.2635	-.0556	.1222	15.29
17.40	.2599	-.0629	.1398	.3357	-.0703	.1509	17.40
19.52	.3116	-.0727	.1653	.3968	-.0857	.1815	19.52
21.62	.3774	-.0867	.1915	.4762	-.1022	.2134	21.62
	Vertical tail, upper			Vertical tail, lower			
-9.56	.02010	-.0495	.0810	.1401	-.0203	.0356	-9.56
-7.47	.01932	-.0468	.0773	.1479	-.0199	.0390	-7.47
-5.38	.01789	-.0445	.0734	.1614	-.0197	.0441	-5.38
-3.33	.01694	-.0427	.0707	.1672	-.0212	.0506	-3.33
-1.27	.01636	-.0396	.0679	.1785	-.0243	.0529	-1.27
.78	.01610	-.0365	.0670	.1936	-.0282	.0546	.78
2.83	.01551	-.0338	.0674	.2006	-.0308	.0592	2.83
4.89	.01467	-.0301	.0668	.2081	-.0343	.0634	4.89
6.98	.01304	-.0265	.0622	.2203	-.0367	.0666	6.98
9.04	.01178	-.0245	.0562	.2375	-.0404	.0703	9.04
11.11	.01010	-.0214	.0498	.2541	-.0430	.0742	11.11
13.21	.00821	-.0164	.0443	.2798	-.0469	.0794	13.21
15.29	.00624	-.0132	.0351	.2931	-.0498	.0805	15.29
17.40	.00541	-.0134	.0278	.3153	-.0550	.0905	17.40
19.52	.00490	-.0136	.0223	.3387	-.0607	.1013	19.52
21.62	.00506	-.0128	.0216	.3941	-.0828	.1203	21.62

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76

TABLE VII. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS

FOR CONFIGURATION, WFHVV; $\beta = -6.1^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$ - Continued(f) $M = 2.29$, $R = 0.51 \times 10^6$, $\delta_s = 35^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-9.98 -7.86 -5.88 -3.84 -1.82 .18 2.18 4.21 6.26 8.26 10.31 12.31 14.34 16.37 18.38 20.39	-0.3724 -.2724 -.2288 -.3311 -.3412 -.2776 -.2603 -.1669 -.0235 .0225 .0630 .2060 .2950 .3398 .4332 .4136	.0197 .0066 -.0002 -.0135 -.0070 -.0133 -.0201 -.0201 -.0199 -.0400 -.0398 -.0466 -.0603 -.0672 -.0742 -.0806	-.1551 .1252 -.0913 -.0347 -.0068 .0359 .0690 .0953 .1188 .1515 .1846 .2030 .2245 .2584 .2843 .3146	.3670 .4567 .5453 .5820 .6769 .7611 .8963 .8847 .7692 .6472 .6220 .9196 .9495 .1.0915 .1.1200 .1.1938	-.0207 -.0281 -.0354 -.0416 -.0418 -.0561 -.0651 -.0698 -.0794 -.0822 -.0869 -.1060 -.1126 -.1216 -.1279 -.1351	-.1595 -.1320 -.1053 -.0678 -.0383 -.0163 -.0020 .0403 .0925 .1400 .1715 .1731 .1978 .2181 .2428 .2588	-9.98 -7.86 -5.88 -3.84 -1.82 .18 2.18 4.21 6.26 8.26 10.31 12.31 14.34 16.37 18.38 20.39
Horizontal tail, left				Horizontal tail, right			
-9.98 -7.86 -5.88 -3.84 -1.82 .18 2.18 4.21 6.26 8.26 10.31 12.31 14.34 16.37 18.38 20.39	-.6978 -.6014 -.5575 -.5202 -.4449 -.3720 -.3675 -.2898 -.1768 -.0772 -.0477 -.0100 .1272 .0725 .1657 .2637 .3343	-.0031 -.0125 -.0223 -.0221 -.0267 -.0458 -.0507 -.0552 -.0695 -.0837 -.1027 -.1300 .1567 .2042 .2106 .2396 .2680	-.0812 -.0684 -.0479 -.0400 -.0249 -.0034 .0218 .0500 .0823 .1077 .1300 .1567 .1.4074 .2681 .3254 .3676	-1.6555 -.16149 -.15032 -.14609 -.14413 -.13311 -.12894 -.12487 -.14119 -.1423 -.15111 -.1440 -.1475 -.8455 -.7828 -.6958	-2.1690 -.21685 -.21642 -.21640 -.21626 -.21593 -.21579 -.21574 -.21578 -.21526 -.21407 -.21440 -.21475 -.21547 -.21542 -.21459	.1032 .1305 .1435 .1583 .1803 .1973 .2202 .2475 .2690 .2939 .3132 .3334 .3897 .3755 .4037 .4315	-9.98 -7.86 -5.88 -3.84 -1.82 .18 2.18 4.21 6.26 8.26 10.31 12.31 14.34 16.37 18.38 20.39
Vertical tail, upper				Vertical tail, lower			
-9.98 -7.86 -5.88 -3.84 -1.82 .18 2.18 4.21 6.26 8.26 10.31 12.31 14.34 16.37 18.38 20.39	.2668 .2671 .2355 .2360 .2148 .1927 .1839 .1943 .1890 .1795 .1921 .1921 .1930 .1887 .1797 .1577 .1036	-.0422 -.0392 -.0378 -.0363 -.0365 -.0379 -.0397 -.0414 -.0397 -.0399 -.0491 -.0523 -.0569 -.0602 -.0383 -.0182	.1381 .1243 .1163 .1025 .0993 .0957 .0913 .0821 .0798 .0752 .0736 .0736 .0851 .0945 .0929 .0617	.3123 .3322 .3158 .3340 .3238 .3270 .3588 .3693 .3931 .4034 .4177 .4168 .4385 .4644 .4746 .4938 .5151	-.0356 -.0293 -.0249 -.0232 -.0190 -.0170 -.0133 -.0137 -.0140 -.0144 -.0168 -.0192 .0218 .0296 .0179 .0183 -.0166	-.0210 -.0276 -.0259 -.0233 -.0176 -.0137 -.0125 -.0046 .0017 .0097 .0210 .0233 .0296 .0378 .0401 .0464	-9.98 -7.86 -5.88 -3.84 -1.82 .18 2.18 4.21 6.26 8.26 10.31 12.31 14.34 16.37 18.38 20.39
Speed brakes, upper				Speed brakes, lower			
-9.98 -7.86 -5.88 -3.84 -1.82 .18 2.18 4.21 6.26 8.26 10.31 12.31 14.34 16.37 18.38 20.39	1.3306 1.3061 1.3032 1.3025 1.3168 1.3498 1.3519 1.4014 1.2707 1.2976 1.1313 .8616 .5795 .3487 .1596 .1436	.0853 .0681 .0678 .0676 .0676 .0502 .0502 .0501 .0836 .0668 .1012 .1188 .1196 .0864 .0513 .0848	.6414 .6359 .6458 .6569 .6721 .6956 .7023 .7308 .7100 .6999 .5692 .4116 .2454 .0970 .0757 .0936	1.3142 .4193 .4816 .4952 .4984 .4930 .4699 .4831 .5211 .5743 .5920 .6348 .6911 .7363 .7762 .7955	-.1530 -.1882 -.2235 -.2411 -.2413 -.2405 -.2409 -.2229 -.2396 -.2568 -.2553 -.2552 -.2727 -.2735 -.2910 -.2900	.6818 .7470 .8015 .8106 .8064 .8036 .7875 .7846 .7929 .8170 .8245 .8353 .8551 .8788 .8998 .9140	-9.98 -7.86 -5.88 -3.84 -1.82 .18 2.18 4.21 6.26 8.26 10.31 12.31 14.34 16.37 18.38 20.39

L-350

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77

TABLE VII. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS

FOR CONFIGURATION, WFHV_v; $\beta = -6.1^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$ - Continued(g) $M = 2.98$, $R = 0.51 \times 10^6$, $\delta_s = 35^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg	
	Wing, left				Wing, right			
-9.88	-1.219	-0.0398	-0.1109	.0357	-0.0567	-0.1220	-9.88	
-7.88	.0381	-0.0479	-0.0949	.1871	-0.0589	-0.1105	-7.88	
-5.81	.0666	-0.0239	-0.0650	.2780	-0.0595	-0.0897	-5.81	
-3.85	.1233	-0.0479	-0.0383	.3432	-0.0678	-0.0630	-3.85	
-1.83	.0152	-0.0239	.0048	.3714	-0.0674	-0.0395	-1.83	
.17	.0435	-0.0320	.0275	.4388	-0.0844	-0.0159	.17	
2.18	.2615	-0.0722	.0231	.4063	-0.0907	.0167	2.18	
4.21	.3518	-0.0563	.0431	.4340	-0.0983	.0403	4.21	
6.24	.4428	-0.0404	.0626	.3378	-0.0955	.0825	6.24	
8.23	.4812	-0.0485	.0913	.2294	-0.1007	.1128	8.23	
10.26	.5905	-0.0730	.1160	.2668	-0.1084	.1424	10.26	
12.27	.6256	-0.0730	.1447	.2248	-0.1148	.1687	12.27	
14.29	.7319	-0.0893	.1695	.2559	-0.1226	.1922	14.29	
16.31	.9043	-0.0979	.1910	.2806	-0.1220	.2161	16.31	
18.34	1.0098	-0.1064	.2161	.3089	-0.1299	.2396	18.34	
20.35	1.1073	-0.1070	.2361	.4047	-0.1395	.2604	20.35	
	Horizontal tail, left				Horizontal tail, right			
-9.88	-5.229	-0.0317	-0.0824	-1.7329	-2.5789	.1230	-9.88	
-7.88	-4.367	-0.0430	-0.0681	-1.6333	-2.5841	.1432	-7.88	
-5.81	-3.3720	-0.0546	-0.0506	-1.5798	-2.5779	.1655	-5.81	
-3.85	-2.2671	-0.0601	-0.0395	-1.5287	-2.5776	.1777	-3.85	
-1.83	-2.2844	-0.0661	-0.0212	-1.5062	-2.5807	.1945	-1.83	
.17	-2.2511	-0.0718	-0.0050	-1.4555	-2.5803	.2117	.17	
2.18	-2.008	-0.0656	.0112	-1.3515	-2.5800	.2268	2.18	
4.21	-1.1128	-0.0651	.0262	-1.3529	-2.5761	.2513	4.21	
6.24	-0.0667	-0.0651	.0508	-1.2271	-2.5814	.2728	6.24	
8.23	-0.0122	-0.0707	.0640	-1.1980	-2.5727	.2937	8.23	
10.26	.0441	-0.0940	.0886	-1.1770	-2.5782	.3102	10.26	
12.27	.1243	-0.1052	.1139	-1.1249	-2.5746	.3273	12.27	
14.29	.1641	-0.1226	.1455	-1.0992	-2.5711	.3434	14.29	
16.31	.2375	-0.1634	.1894	-1.0762	-2.5706	.3694	16.31	
18.34	.2802	-0.1866	.2213	-1.0257	-2.5705	.3870	18.34	
20.35	.3337	-0.2160	.2573	-1.4722	-2.5730	.4518	20.35	
	Vertical tail, upper				Vertical tail, lower			
-9.88	.2310	-0.0662	.1213	.3142	-0.0350	.0489	-9.88	
-7.88	.2133	-0.0607	.1133	.3076	-0.0325	.0304	-7.88	
-5.81	.2098	-0.0551	.1039	.3233	-0.0301	.0290	-5.81	
-3.85	.1924	-0.0515	.0957	.3296	-0.0303	.0336	-3.85	
-1.83	.1963	-0.0459	.0982	.3363	-0.0304	.0384	-1.83	
.17	.1829	-0.0424	.0920	.3499	-0.0334	.0475	.17	
2.18	.1797	-0.0389	.0823	.3648	-0.0387	.0566	2.18	
4.21	.1663	-0.0370	.0762	.3793	-0.0441	.0657	4.21	
6.24	.1532	-0.0352	.0700	.4107	-0.0496	.0728	6.24	
8.23	.1207	-0.0371	.0711	.3696	-0.0542	.0828	8.23	
10.26	.1142	-0.0371	.0679	.4335	-0.0577	.0865	10.26	
12.27	.1178	-0.0371	.0612	.4644	-0.0633	.0936	12.27	
14.29	.1008	-0.0352	.0617	.4775	-0.0660	.1030	14.29	
16.31	.0484	-0.0258	.0459	.4922	-0.0714	.1118	16.31	
18.34	.0230	-0.0165	.0346	.5391	-0.0747	.1175	18.34	
20.35	.0210	-0.0167	.0252	.5762	-0.0780	.1297	20.35	
	Speed brakes, upper				Speed brakes, lower			
-9.88	1.4847	.0604	.7556	.7237	-0.0377	.3339	-9.88	
-7.88	1.4843	.0603	.7622	.8808	-0.0366	.4048	-7.88	
-5.81	1.4242	.0602	.7415	1.0996	-0.0998	.5458	-5.81	
-3.85	1.3793	.0601	.7242	1.2704	-0.1422	.6686	-3.85	
-1.83	1.3669	.0397	.7222	1.3500	-0.1635	.7222	-1.83	
.17	1.3661	.0395	.7354	1.3823	-0.1844	.7369	.17	
2.18	1.3652	.0600	.7349	1.4143	-0.1840	.7444	2.18	
4.21	1.3323	.0802	.7263	1.4773	-0.2040	.7589	4.21	
6.24	1.1240	.1011	.6034	1.5545	-0.2040	.8111	6.24	
8.23	.8882	.1223	.4476	1.6356	-0.2250	.8515	8.23	
10.26	.6661	.1021	.3288	1.7140	-0.2246	.8904	10.26	
12.27	.4966	.0607	.2738	1.7915	-0.2448	.9219	12.27	
14.29	.3072	.0606	.1914	1.8520	-0.2441	.9491	14.29	
16.31	.1152	.0196	.1070	1.9624	-0.2645	1.0025	16.31	
18.34	.0832	.0604	.0988	2.0414	-0.2852	1.0418	18.34	
20.35	.0680	.0811	.0816	2.1530	-0.2851	1.1028	20.35	

TABLE VII. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS

FOR CONFIGURATION, WFFHVV, $\beta = -6.1^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$ - Continued(h) $M = 2.29$, $R = 3.24 \times 10^6$, $\delta_s = 35^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-10.56	-0.4868	.0408	-0.1695	-0.2916	.0340	-0.1619	-10.56
-8.39	-0.4087	.0336	-0.1404	-0.2746	.0290	-0.1312	-8.39
-6.24	-0.3903	.0269	-0.0965	-0.2256	.0221	-0.0977	-6.24
-4.12	-0.3113	.0195	-0.0602	-0.1095	.0123	-0.0634	-4.12
-1.97	-0.1619	.0141	-0.0327	-0.0764	.0070	-0.0255	-1.97
.19	-0.0782	.0092	.0056	.0768	.0000	.0036	.19
2.34	.0245	.0020	.0355	.0945	-0.0008	.0463	2.34
4.48	.1625	-0.0068	.0610	.2050	-0.0105	.0786	4.48
6.62	.2563	-0.0167	.0949	.2764	-0.0213	.1180	6.62
8.79	.3402	-0.0239	.1284	.3488	-0.0302	.1511	8.79
10.95	.4270	-0.0302	.1635	.4003	-0.0376	.1814	10.95
13.09	.4966	-0.0388	.1990	.4633	-0.0468	.2058	13.09
15.28	.5596	-0.0448	.2317	.5221	-0.0553	.2293	15.28
17.47	.5999	-0.0553	.2743	.5684	-0.0617	.2564	17.47
19.63	.6538	-0.0653	.3106	.6219	-0.0686	.2803	19.63
Horizontal tail, left				Horizontal tail, right			
-10.56	-0.3216	.0415	-0.1189	-0.2038	.0403	-0.0814	-10.56
-8.39	-0.2361	.0212	-0.0877	-0.1501	.0268	-0.0524	-8.39
-6.24	-0.1828	.0167	-0.0702	-0.1158	.0188	-0.0324	-6.24
-4.12	-0.1669	.0176	-0.0616	-0.0856	.0102	-0.0136	-4.12
-1.97	-0.1423	.0062	-0.0379	-0.0561	.0001	.0072	-1.97
.19	-0.0906	-0.0073	-0.0102	-0.0072	-0.0107	.0327	.19
2.34	-0.0371	-0.0232	.0239	.0651	-0.0228	.0590	2.34
4.48	.0194	-0.0371	.0586	.1347	-0.0362	.0867	4.48
6.62	.0996	-0.0563	.0947	.2032	-0.0493	.1159	6.62
8.79	.1902	-0.0768	.1270	.2613	-0.0630	.1418	8.79
10.95	.2601	-0.1015	.1623	.3263	-0.0761	.1675	10.95
13.09	.3539	-0.1369	.2083	.3788	-0.0833	.1861	13.09
15.28	.4501	-0.1690	.2483	.4457	-0.0926	.2035	15.28
17.47	.5661	-0.2146	.3094	.5028	-0.1122	.2307	17.47
19.63	.6878	-0.2495	.3653	.5848	-0.1416	.2650	19.63
Vertical tail, upper				Vertical tail, lower			
-10.56	.3223	-0.0504	.1516	.2179	-0.0457	.0623	-10.56
-8.39	.2993	-0.0471	.1408	.2151	-0.0391	.0592	-8.39
-6.24	.2746	-0.0432	.1294	.2083	-0.0323	.0583	-6.24
-4.12	.2573	-0.0409	.1197	.2062	-0.0286	.0600	-4.12
-1.97	.2394	-0.0406	.1106	.2145	-0.0256	.0643	-1.97
.19	.2226	-0.0407	.1030	.2313	-0.0242	.0705	.19
2.34	.2151	-0.0409	.0959	.2438	-0.0229	.0771	2.34
4.48	.2105	-0.0427	.0934	.2651	-0.0229	.0876	4.48
6.62	.1997	-0.0422	.0901	.2841	-0.0236	.0987	6.62
8.79	.1944	-0.0440	.0860	.3022	-0.0258	.1107	8.79
10.95	.2050	-0.0543	.0927	.3240	-0.0282	.1235	10.95
13.09	.2039	-0.0556	.0934	.3471	-0.0297	.1380	13.09
15.28	.2070	-0.0638	.0996	.3698	-0.0291	.1431	15.28
17.47	.1646	-0.0424	.0908	.3842	-0.0269	.1542	17.47
19.63	.1114	-0.0219	.0674	.3920	-0.0229	.1596	19.63
Speed brakes, upper				Speed brakes, lower			
-10.56	1.3305	-0.1187	.6978	1.0665	-0.0503	.4615	-10.56
-8.39	1.3228	-0.1187	.6925	1.3523	-0.1055	.6545	-8.39
-6.24	1.3230	-0.1240	.6935	1.4539	-0.1612	.7428	-6.24
-4.12	1.3348	-0.1321	.7034	1.4410	-0.1615	.7434	-4.12
-1.97	1.3466	-0.1402	.7133	1.4514	-0.1586	.7449	-1.97
.19	1.3604	-0.1455	.7228	1.4277	-0.1500	.7185	.19
2.34	1.3898	-0.1563	.7413	1.4345	-0.1525	.7148	2.34
4.48	1.4516	-0.1579	.7836	1.4589	-0.1510	.7213	4.48
6.62	1.4152	-0.1281	.7595	1.4780	-0.1535	.7259	6.62
8.79	1.3191	-0.1090	.6924	1.5179	-0.1559	.7389	8.79
10.95	1.0150	-0.0703	.4746	1.5638	-0.1555	.7559	10.95
13.09	.7595	-0.0935	.2978	1.6056	-0.1579	.7730	13.09
15.28	.5542	-0.0766	.2003	1.6530	-0.1614	.7926	15.28
17.47	.2311	-0.0721	.1079	1.7061	-0.1665	.8167	17.47
19.63	.2020	-0.0720	.1137	1.7551	-0.1727	.8396	19.63

TABLE VII. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS
FOR CONFIGURATION, WFFVV; $\beta = -6.1^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$ - Continued

(1) $M = 2.98$, $R = 4.06 \times 10^6$, $\delta_s = 35^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-10.54	-0.3877	.0336	-0.1340	-0.2589	.0286	-0.1228	-10.54
-8.34	-0.3141	.0288	-0.1073	-0.2210	.0217	-0.0993	-8.34
-6.23	-0.2407	.0227	-0.0813	-0.2060	.0191	-0.0702	-6.23
-4.10	-0.2343	.0169	-0.0490	-0.1298	.0131	-0.0431	-4.10
-1.94	-0.1466	.0123	-0.0255	-0.0483	.0064	-0.0183	-1.94
.17	-0.0503	.0068	-0.0040	.0064	.0012	.0068	.17
2.27	.0217	.0030	.0187	.0538	.0016	.0355	2.27
4.43	.1288	-.0032	.0395	.1131	-.0018	.0578	4.43
6.57	.2499	-.0088	.0634	.1594	-.0109	.0825	6.57
8.73	.2784	-.0159	.0981	.2292	-.0185	.1069	8.73
10.83	.3470	-.0227	.1284	.2844	-.0257	.1936	10.83
12.99	.4013	-.0283	.1615	.3133	-.0326	.1591	12.99
15.14	.4635	-.0372	.1926	.3775	-.0400	.1790	15.14
17.33	.5355	-.0464	.2301	.4144	-.0448	.2062	17.33
19.49	.6039	-.0539	.2652	.4735	-.0519	.2297	19.49
21.69	.6631	-.0623	.2995	.5263	-.0601	.2548	21.69
Horizontal tail, left				Horizontal tail, right			
-10.54	-.2824	.0342	-.0949	-.1832	.0373	-.0746	-10.54
-8.34	-.2216	.0207	-.0803	-.1329	.0229	-.0500	-8.34
-6.23	-.1788	.0151	-.0628	-.0850	.0156	-.0268	-6.23
-4.10	-.1505	.0167	-.0508	-.0543	.0102	-.0111	-4.10
-1.94	-.1190	.0089	-.0325	-.0297	.0007	.0059	-1.94
.17	-.0824	.0010	-.0080	.0026	-.0066	.0238	.17
2.27	.0265	-.0103	.0174	.0437	-.0154	.0449	2.27
4.43	.0124	-.0196	.0409	.1024	-.0271	.0668	4.43
6.57	.0603	-.0325	.0669	.1627	-.0398	.0944	6.57
8.73	.1236	-.0482	.0953	.2214	-.0514	.1164	8.73
10.83	.1880	-.0666	.1271	.2665	-.0595	.1336	10.83
12.99	.2451	-.0825	.1487	.3100	-.0683	.1534	12.99
15.14	.2838	-.0996	.1741	.3503	-.0779	.1737	15.14
17.33	.3782	-.1261	.2096	.4178	-.0900	.1991	17.33
19.49	.4621	-.1454	.2382	.4788	-.1030	.2237	19.49
21.69	.5385	-.1685	.2702	.5395	-.1159	.2497	21.69
Vertical tail, upper				Vertical tail, lower			
-10.54	.3041	-.0710	.1360	.1771	-.0303	.0506	-10.54
-8.34	.2833	-.0649	.1275	.1764	-.0284	.0526	-8.34
-6.23	.2657	-.0592	.1188	.1853	-.0258	.0555	-6.23
-4.10	.2490	-.0543	.1117	.1918	-.0269	.0583	-4.10
-1.94	.2305	-.0477	.1048	.2081	-.0291	.0649	-1.94
.17	.2148	-.0425	.0973	.2285	-.0327	.0728	.17
2.27	.1980	-.0374	.0890	.2537	-.0378	.0816	2.27
4.43	.1846	-.0352	.0835	.2740	-.0432	.0905	4.43
6.57	.1719	-.0334	.0782	.2939	-.0494	.1004	6.57
8.73	.1496	-.0330	.0723	.3107	-.0550	.1101	8.73
10.83	.1501	-.0381	.0711	.3385	-.0601	.1220	10.83
12.99	.1475	-.0410	.0684	.3602	-.0646	.1308	12.99
15.14	.1392	-.0430	.0681	.3829	-.0673	.1397	15.14
17.33	.1034	-.0288	.0590	.4037	-.0716	.1536	17.33
19.49	.0932	-.0268	.0541	.4260	-.0749	.1656	19.49
21.69	.0852	-.0255	.0514	.4501	-.0804	.1798	21.69
Speed brakes, upper				Speed brakes, lower			
-10.54	1.4495	-.1504	.8014	.7633	-.0307	.3199	-10.54
-8.34	1.4221	-.1451	.7853	1.0835	-.0505	.5022	-8.34
-6.23	1.3920	-.1427	.7645	1.3152	-.1129	.6556	-6.23
-4.10	1.3519	-.1451	.7385	1.3907	-.1492	.7068	-4.10
-1.94	1.3325	-.1501	.7259	1.4127	-.1517	.7146	-1.94
.17	1.3260	-.1601	.7232	1.4310	-.1539	.7185	.17
2.27	1.3383	-.1678	.7307	1.4789	-.1510	.7359	2.27
4.43	1.3903	-.1780	.7664	1.5420	-.1558	.7619	4.43
6.57	1.2581	-.1171	.6730	1.6153	-.1630	.7942	6.57
8.73	1.0437	-.0838	.5262	1.7019	-.1703	.8373	8.73
10.83	.7427	-.0727	.3142	1.7938	-.1803	.8838	10.83
12.99	.5218	-.0777	.2137	1.8822	-.1875	.9264	12.99
15.14	.3942	-.0855	.1706	1.9739	-.1947	.9722	15.14
17.33	.2266	-.0661	.1491	2.0697	-.2020	1.0160	17.33
19.49	.1597	-.0506	.1289	2.1867	-.2119	1.0769	19.49
21.69	.1861	-.0535	.1230	2.2808	-.2190	1.1135	21.69

TABLE VII. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS

FOR CONFIGURATION, WFHVv; $\beta = -6.1^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$ - Concluded(j) $M = 4.65$, $R = 4.43 \times 10^6$, $\delta_s = 35^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-9.57	-0.2160	0.0233	-0.0857	0.0132	0.0092	-0.0710	-9.57
-7.47	-0.2122	0.0159	-0.0626	0.0584	0.0097	-0.0514	-7.47
-5.42	-0.1661	0.0131	-0.0467	0.0253	0.0068	-0.0339	-5.42
-3.37	-0.1314	0.0088	-0.0303	0.0261	0.0032	-0.0235	-3.37
-1.28	-0.1292	0.0074	-0.0072	0.0229	0.0010	-0.0048	-1.28
.77	-0.1049	0.0044	0.0116	0.0981	-0.0064	0.0036	.77
2.82	-0.0477	0.0044	0.0267	0.1151	-0.0076	0.0191	2.82
4.91	0.0558	0.0030	0.0355	0.1207	-0.0088	0.0367	4.91
6.96	0.1262	0.0028	0.0490	0.1274	-0.0127	0.0538	6.96
9.02	0.1883	0.0018	0.0654	0.1576	-0.0159	0.0686	9.02
11.09	0.2557	-0.0052	0.0857	0.2028	-0.0207	0.0853	11.09
13.19	0.3135	-0.0084	0.1093	0.2000	-0.0229	0.1069	13.19
15.28	0.3971	-0.0149	0.1304	0.2864	-0.0302	0.1248	15.28
17.36	0.4298	-0.0199	0.1651	0.3075	-0.0356	0.1555	17.36
19.45	0.4848	-0.0265	0.1958	0.3769	-0.0420	0.1838	19.45
21.60	0.5459	-0.0330	0.2305	0.4248	-0.0483	0.2157	21.60
Horizontal tail, left				Horizontal tail, right			
-9.57	-0.2239	0.0189	-0.0546	-0.1625	0.0186	-0.0406	-9.57
-7.47	-0.2024	0.0134	-0.0417	-0.1228	0.0122	-0.0306	-7.47
-5.42	-0.1543	0.0070	-0.0258	-0.0888	0.0061	-0.0153	-5.42
-3.37	-0.1313	0.0061	-0.0193	-0.0619	0.0031	-0.0058	-3.37
-1.28	-0.1010	0.0039	-0.0122	-0.0467	0.0021	-0.0057	-1.28
.77	-0.0764	0.0007	0.0000	-0.0224	0.0082	0.0208	.77
2.82	-0.0491	-0.0079	0.0155	0.0216	-0.0144	0.0357	2.82
4.91	0.0156	-0.0167	0.0363	0.0511	-0.0207	0.0474	4.91
6.96	0.0186	-0.0253	0.0525	0.0713	-0.0259	0.0592	6.96
9.02	0.0485	-0.0342	0.0663	0.1058	-0.0320	0.0719	9.02
11.09	0.0862	-0.0416	0.0818	0.1385	-0.0404	0.0875	11.09
13.19	0.1188	-0.0492	0.1004	0.1952	-0.0496	0.1054	13.19
15.28	0.1549	-0.0591	0.1198	0.2311	-0.0600	0.1269	15.28
17.36	0.2285	-0.0720	0.1452	0.2988	-0.0735	0.1554	17.36
19.45	0.2920	-0.0874	0.1705	0.3659	-0.0879	0.1844	19.45
21.60	0.3613	-0.1024	0.1984	0.4445	-0.1055	0.2183	21.60
Vertical tail, upper				Vertical tail, lower			
-9.57	0.2018	-0.0513	0.0858	0.1616	-0.0186	0.0310	-9.57
-7.47	0.1920	-0.0489	0.0812	0.1694	-0.0210	0.0333	-7.47
-5.42	0.1792	-0.0459	0.0766	0.1855	-0.0238	0.0393	-5.42
-3.37	0.1714	-0.0438	0.0729	0.1918	-0.0271	0.0427	-3.37
-1.28	0.1601	-0.0404	0.0709	0.2025	-0.0306	0.0469	-1.28
.77	0.1563	-0.0371	0.0693	0.2189	-0.0350	0.0498	.77
2.82	0.1537	-0.0335	0.0684	0.2245	-0.0391	0.0552	2.82
4.91	0.1434	-0.0301	0.0684	0.2382	-0.0421	0.0592	4.91
6.96	0.1265	-0.0268	0.0649	0.2506	-0.0452	0.0623	6.96
9.02	0.1204	-0.0273	0.0603	0.2640	-0.0478	0.0663	9.02
11.09	0.1011	-0.0224	0.0530	0.2854	-0.0515	0.0708	11.09
13.19	0.0866	-0.0199	0.0477	0.2952	-0.0555	0.0742	13.19
15.28	0.0680	-0.0160	0.0406	0.3254	-0.0592	0.0774	15.28
17.36	0.0562	-0.0137	0.0319	0.3438	-0.0659	0.0868	17.36
19.45	0.0401	-0.0093	0.0232	0.3698	-0.0747	0.0984	19.45
21.60	0.0397	-0.0085	0.0213	0.4289	-0.1027	0.1212	21.60
Speed brakes, upper				Speed brakes, lower			
-9.57	1.9392	-0.1594	1.0382	0.4793	-0.0217	0.2513	-9.57
-7.47	1.7838	-0.1513	0.9298	0.7046	-0.0159	0.3399	-7.47
-5.42	1.7184	-0.1436	0.8870	0.9634	-0.0621	0.4669	-5.42
-3.37	1.6505	-0.1241	0.8416	1.1527	-0.1130	0.5725	-3.37
-1.28	1.5202	-0.1160	0.7479	1.3153	-0.1320	0.6546	-1.28
.77	1.3722	-0.1121	0.6716	1.4994	-0.1508	0.7419	.77
2.82	1.1769	-0.0813	0.5810	1.6789	-0.1698	0.8369	2.82
4.91	1.0215	-0.0621	0.5127	1.8587	-0.1929	0.9335	4.91
6.96	.8327	-0.0078	0.3918	2.0532	-0.2157	1.0320	6.96
9.02	.5306	.0119	.2237	2.2438	-0.2310	1.1440	9.02
11.09	.3945	-0.0197	.2125	2.4180	-0.2419	1.2287	11.09
13.19	.2922	-0.0044	.1769	2.5955	-0.2568	1.3131	13.19
15.28	.1983	.0263	.1329	2.8547	-0.2755	1.4529	15.28
17.36	.1095	.0227	.0794	3.1087	-0.2899	1.5732	17.36
19.45	.0579	.0228	.0521	3.3350	-0.3160	1.6706	19.45
21.60	.0267	.0191	.0198	3.4672	-0.3303	1.7055	21.60

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TABLE VIII. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS

FOR CONFIGURATION, WFHVV; $\beta = 6.0^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_V = 0^\circ$, $\delta_S = 35^\circ$ (a) $M = 2.29$, $R = 0.51 \times 10^6$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-9.90 -7.89 -5.88 -3.90 -1.82 .20 2.19 4.23 6.27 8.28 10.28 12.31 14.34 16.37 18.38 20.40	-4467 -3634 -1725 -3293 -3728 -2756 -1586 -1033 .0401 .0734 .0628 .0381 .0726 .1095 .0878 .1657	.0062 .0064 .0133 .0201 .0334 .0201 .0000 .0332 .0332 .0267 .0599 .0400 .0599 .2357 .2644 .0800 .0802	-1252 -1041 -0989 -0347 .0104 .0355 .0590 .0969 .1204 .1491 .1802 .2121 .9557 .8450 .0800 .3074	.3039 .3939 .4380 .5760 .7220 .8135 .9445 .8729 .8564 .8450 .8837 .9222 .0921 .0985 .1035 .1108 .1111	-.0054 .0127 .0187 .0273 .0358 .0501 .0661 .0700 .0750 .0800 .0861 .0921 .1790 .2089 .2460 .2680 .2951	-.1555 -.1284 -.0889 -.0670 -.0455 -.0187 .0096 .0303 .0674 .1097 .1443 .1790 .1790 .2089 .2460 .2680 .2951	-9.90 -7.89 -5.88 -3.90 -1.82 .20 2.19 4.23 6.27 8.28 10.28 12.31 14.34 16.37 18.38 20.40
Horizontal tail, left				Horizontal tail, right			
-9.90 -7.89 -5.88 -3.90 -1.82 .20 2.19 4.23 6.27 8.28 10.28 12.31 14.34 16.37 18.38 20.40	-5784 .5058 -4453 -3920 -3485 -2994 -2190 -1591 .0694 .0942 .0251 .0000 .0603 .1295 .1495 .1669	.0121 .0027 .0069 .0166 .0262 .0356 .0354 .0555 .0829 .0789 .0933 .1030 .1126 .1270 .1514 .1809	-0.642 -.0396 -.0218 -.0073 .0132 .0368 .0354 .0555 .13738 .13084 .1116 .12245 .1356 .1570 .1800 .1978 .2192 .2484 .2866	-1.6664 -1.6048 -1.5856 -1.5455 -1.5006 -1.4151 -1.3738 -1.3084 .1116 .12245 .11619 .10994 .0156 .08665 .21558 .7197 .21549 .5940 .4892	-2.1577 -2.1613 -2.1610 -2.1645 -2.1604 -2.1600 -2.1594 -2.1540 -2.1533 -2.1523 -2.1568 .3169 .3574 .4148 .4666 .5095	.0851 .0964 .1184 .1291 .1433 .1642 .1872 .2148 .2482 .2761 .3043 .3169 .3574 .4148 .4666 .5095	-9.90 -7.89 -5.88 -3.90 -1.82 .20 2.19 4.23 6.27 8.28 10.28 12.31 14.34 16.37 18.38 20.40
Vertical tail, upper				Vertical tail, lower			
-9.90 -7.89 -5.88 -3.90 -1.82 .20 2.19 4.23 6.27 8.28 10.28 12.31 14.34 16.37 18.38 20.40	-3024 -2755 -2506 -2441 -2242 -2072 -2053 -2086 .0414 .1962 .1865 .2027 .1957 .0509 .1860 .1965 .1724 .1126	.0437 .0407 .0361 .0363 .0348 .0365 .0381 .0414 .0414 .0414 .0477 .0741 .0554 .0554 .0602 .0428 .0199	-0.1317 -.11264 -.11152 -.1051 -.0959 -.0947 -.0867 -.0810 -.0821 -.0775 -.0707 -.0741 -.0833 -.1873 -.1892 -.0918 -.0587	-.0776 -.0750 -.0685 -.0792 -.0694 -.0848 -.1058 -.1255 -.1285 -.1551 -.1560 -.1673 -.1673 -.0243 -.0247 -.0229 -.0210	.0533 .0430 .0389 .0347 .0306 .0269 .0251 .0273 .0279 .0260 .0262 .0262 .0243 .0247 .0229 .0210	-.1448 -.1454 .1425 .1402 .1465 .1473 .1647 .1681 .1815 .1892 .2025 .2111 .2145 .2278 .2264 .2350	-9.90 -7.89 -5.88 -3.90 -1.82 .20 2.19 4.23 6.27 8.28 10.28 12.31 14.34 16.37 18.38 20.40
Speed brakes, upper				Speed brakes, lower			
-9.90 -7.89 -5.88 -3.90 -1.82 .20 2.19 4.23 6.27 8.28 10.28 12.31 14.34 16.37 18.38 20.40	.9120 .8885 .8632 .8264 .7618 .6986 .6738 .6761 .7523 .8520 .8516 .8511 .8377 .8251 .5237 .5356	.1016 .1017 .1016 .1188 .1357 .1527 .1527 .1015 .0674 .0501 .0673 .0844 .1015 .1186 .1697 .1696	.4631 .4580 .4521 .4381 .4110 .3847 .3733 .3748 .0087 .4099 .4671 .4611 .4551 .4517 .3971 .3043 .3183	.7291 .7171 .6766 .6909 .7560 .8225 .9432 .1.0087 .1.0742 .1.1145 .1.2073 .1.2738 .1.3396 .1.4061 .1.4597 .1.5126	-.1569 -.1573 -.1223 -.1045 -.1036 -.1207 -.1725 -.1899 -.2073 -.2246 -.2592 -.2763 -.2758 -.2929 -.3100 -.3094	.4463 .4441 .4227 .4205 .4409 .4681 .5141 .5526 .5910 .6063 .6514 .6786 .7053 .7326 .7510 .7691	-9.90 -7.89 -5.88 -3.90 -1.82 .20 2.19 4.23 6.27 8.28 10.28 12.31 14.34 16.37 18.38 20.40

TABLE VIII.- SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS
FOR CONFIGURATION, WVFHVv; $\beta = 6.0^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$, $\delta_s = 35^\circ$ - Continued

(b) $M = 2.98$, $R = 0.51 \times 10^6$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
	Wing, left			Wing, right			
-9.96	-0.1671	-0.0318	-0.0897	0.0257	-0.0310	-0.1204	-9.96
-7.91	-0.0838	-0.0239	-0.0754	0.1163	-0.0316	-0.0997	-7.91
-5.87	.1843	-0.0318	-0.0829	0.2760	-0.0422	-0.0825	-5.87
-3.87	.0519	-0.0318	-0.0275	0.4104	-0.0605	-0.0662	-3.87
-1.83	-0.0435	-0.0476	0.0140	0.4418	-0.0684	-0.0431	-1.83
.17	.1057	-0.0396	0.0243	0.4248	-0.0752	-0.0215	.17
2.18	.2617	-0.0557	0.0287	0.4527	-0.0830	.0020	2.18
4.19	.2856	-0.0398	0.0522	0.4902	-0.0989	.0307	4.19
6.22	.3877	-0.0641	0.0710	0.3965	-0.0967	.0730	6.22
8.23	.3562	-0.0563	0.1041	0.4924	-0.1052	0.0933	8.23
10.25	.3901	-0.0724	0.1264	0.5852	-0.1060	.1144	10.25
12.27	.6041	-0.0728	0.1276	0.6187	-0.1136	.1435	12.27
14.30	.5668	-0.0728	0.1543	0.5941	-0.1216	.1826	14.30
16.31	.6005	-0.0649	0.1830	0.5038	-0.1176	.2309	16.31
18.32	.6314	-0.0730	0.2062	0.4777	-0.1237	0.2696	18.32
20.33	.6047	-0.0891	0.2381	0.5120	-0.1315	0.2991	20.33
	Horizontal tail, left			Horizontal tail, right			
-9.96	-0.4237	-0.0196	-0.0713	-1.8014	-2.5662	.1088	-9.96
-7.91	-0.3722	-0.0309	-0.0468	-1.8018	-2.5629	.1290	-7.91
-5.87	-0.3269	-0.0482	-0.0263	-1.7008	-2.5657	.1436	-5.87
-3.87	-0.2962	-0.0482	-0.0104	-1.6503	-2.5653	.1612	-3.87
-1.83	-0.2106	-0.0596	.0042	-1.5197	-2.5650	.1669	-1.83
.17	-0.1481	-0.0648	0.0210	-1.4934	-2.5609	.1829	.17
2.18	-0.1074	-0.0705	0.0413	-1.4518	-2.5550	.2013	2.18
4.19	-0.0804	-0.0935	0.0645	-1.4950	-2.5545	.2222	4.19
6.22	-0.0220	-0.1054	0.0933	-1.3978	-2.5636	.2430	6.22
8.23	.0375	-0.1056	0.1107	-1.3485	-2.5673	.2556	8.23
10.25	.0521	-0.1176	0.1306	-1.2756	-2.5732	.2799	10.25
12.27	.0828	-0.1172	0.1466	-1.2778	-2.5694	.3099	12.27
14.30	.1162	-0.1231	0.1632	-1.1505	-2.5720	.3363	14.30
16.31	.1673	-0.1346	0.1875	-1.0263	-2.5771	.3728	16.31
18.32	.2110	-0.1463	0.2080	-1.4996	-2.5763	.4459	18.32
20.33	.2359	-0.1638	0.2317	-0.9052	-2.5816	.4346	20.33
	Vertical tail, upper			Vertical tail, lower			
-9.96	-0.3410	.0638	-0.1303	-0.0420	.0339	-0.0606	-9.96
-7.91	-0.3220	.0564	-0.1220	-0.0556	.0315	-0.0575	-7.91
-5.87	-0.3046	.0528	-0.1140	-0.0306	.0290	-0.0686	-5.87
-3.87	-0.2954	.0473	-0.1018	-0.0589	.0267	-0.0620	-3.87
-1.83	-0.2775	.0437	-0.0938	-0.0656	.0293	-0.0660	-1.83
.17	-0.2644	.0399	-0.0881	-0.0775	.0319	-0.0737	.17
2.18	-0.2615	.0366	-0.0787	-0.0841	.0347	-0.0774	2.18
4.19	-0.2497	.0348	-0.0734	-0.1338	.0378	-0.0990	4.19
6.22	-0.2298	.0330	-0.0725	-0.1504	.0433	-0.1092	6.22
8.23	.2106	.0370	-0.0713	-0.1476	.0461	-0.1203	8.23
10.25	.2145	.0371	-0.0647	-0.1754	.0517	-0.1246	10.25
12.27	.2176	.0373	-0.0578	-0.2380	.0548	-0.1263	12.27
14.30	.2095	.0334	-0.0709	-0.2063	.0598	-0.1442	14.30
16.31	.1458	.0258	-0.0668	-0.2098	.0625	-0.1601	16.31
18.32	.1126	.0203	-0.0516	-0.2235	.0629	-0.1701	18.32
20.33	.0997	.0203	-0.0454	-0.2453	.0659	-0.1852	20.33
	Speed brakes, upper			Speed brakes, lower			
-9.96	.7746	.1411	.4525	.3255	-0.0840	.2204	-9.96
-7.91	.7296	.1205	.4420	.2771	-0.0634	.2018	-7.91
-5.87	.7008	.1206	.4289	.2774	-0.0635	.2021	-5.87
-3.87	.6565	.1207	.4052	.3232	-0.0423	.2261	-3.87
-1.83	.5682	.1208	.3511	.4164	-0.0419	.2751	-1.83
.17	.4914	.1407	.3121	.5252	-0.0829	.3276	.17
2.18	.4635	.1206	.2860	.5883	-0.1035	.3562	2.18
4.19	.4334	.1410	.2653	.6983	-0.1024	.3954	4.19
6.22	.4656	.1212	.2804	.7622	-0.1028	.4385	6.22
8.23	.5435	.0807	.3201	.8121	-0.1243	.4719	8.23
10.25	.5900	.0603	.3519	.9090	-0.1666	.5302	10.25
12.27	.5746	.0603	.3414	.9715	-0.1871	.5584	12.27
14.30	.5297	.0809	.3173	1.0680	-0.2070	.6022	14.30
16.31	.3356	.1016	.2111	1.1778	-0.2072	.6552	16.31
18.32	.3054	.1015	.2040	1.2890	-0.2275	.7021	18.32
20.33	.2594	.1219	.1862	1.3834	-0.2269	.7447	20.33

REF ID: A6512
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83

TABLE VIII. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS
FOR CONFIGURATION, WFFHV; $\beta = 6.0^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$, $\delta_s = 35^\circ$ - Continued

(c) $M = 2.20$, $R = 3.24 \times 10^6$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg	
	Wing, left				Wing, right			
-10.62	-0.3917	.0380	-0.1770	-0.2058	.0344	-0.1703	-10.62	
-8.43	-0.3749	.0300	-0.1420	-0.2262	.0288	-0.1304	-8.43	
-6.21	-0.3279	.0213	-0.1116	-0.1586	.0215	-0.0969	-6.21	
-4.12	-0.2908	.0155	-0.0662	-0.0576	.0115	-0.0586	-4.12	
-1.97	-0.2092	.0097	-0.0287	.0503	.0044	-0.0283	-1.97	
.16	-0.0664	.0052	-0.0004	.1256	-0.0202	.0064	.16	
2.34	-0.0060	.0022	.0407	.1649	-0.0666	.0423	2.34	
4.50	.1185	.0054	.0718	.2433	-0.0143	.0718	4.50	
6.64	.1839	-.0151	.1136	.3181	-0.0217	.1085	6.64	
8.80	.2411	-.0241	.1491	.3831	-0.0267	.1447	8.80	
10.97	.3099	-.0330	.1782	.4571	-0.0340	.1814	10.97	
13.11	.3287	-.0408	.2062	.5054	-0.0434	.2177	13.11	
15.28	.3749	-.0487	.2325	.5929	-0.0519	.2512	15.28	
17.48	.4324	-.0581	.2592	.6615	-0.0623	.2899	17.48	
19.63	.4836	-.0633	.2815	.7447	-0.0692	.3206	19.63	
	Horizontal tail, left				Horizontal tail, right			
-10.62	-0.2529	.0364	-0.0857	-0.3076	.0442	-0.1137	-10.62	
-8.43	-0.1936	.0214	-0.0539	-0.2168	.0239	-0.0830	-8.43	
-6.21	-0.1579	.0131	-0.0337	-0.1585	.0204	-0.0673	-6.21	
-4.12	-0.1311	.0061	-0.0139	-0.1383	.0220	-0.0577	-4.12	
-1.97	-0.0852	-.0058	.0100	-0.1076	.0090	-0.0335	-1.97	
.16	-0.0443	-.0148	.0352	-0.0579	-0.0011	-.0104	.16	
2.34	.0066	-.0301	.0641	.0010	-.0169	.0231	2.34	
4.50	.0583	-.0452	.0938	.0689	-.0290	.0563	4.50	
6.64	.1170	-.0573	.1218	.1681	-.0463	.0913	6.64	
8.80	.1768	-.0701	.1488	.2621	-.0665	.1236	8.80	
10.97	.2186	-.0831	.1753	.3415	-.0936	.1589	10.97	
13.11	.2695	-.0898	.1938	.4645	-.1272	.2009	13.11	
15.28	.3154	-.0997	.2122	.5397	-.1645	.2490	15.28	
17.48	.3788	-.1202	.2394	.6621	-.2084	.3082	17.48	
19.63	.4469	-.1496	.2729	.7684	-.2416	.3616	19.63	
	Vertical tail, upper				Vertical tail, lower			
-10.62	-0.3498	.0495	-0.1475	-0.1759	.0520	-0.0998	-10.62	
-8.43	-0.3208	.0453	-0.1356	-0.1665	.0454	-0.0996	-8.43	
-6.21	-0.2912	.0412	-0.1234	-0.1707	.0387	-0.0979	-6.21	
-4.12	-0.2627	.0386	-0.1115	-0.1663	.0327	-0.0993	-4.12	
-1.97	-0.2420	.0381	-0.1025	-0.1742	.0286	-.1027	-1.97	
.16	-0.2268	.0391	-0.0959	-0.1855	.0258	-0.1081	.16	
2.34	-0.2122	.0402	-0.0904	-0.2009	.0240	-0.1161	2.34	
4.50	-0.2074	.0422	-0.0858	-0.2240	.0240	-0.1249	4.50	
6.64	-0.1954	.0422	-0.0817	-0.2492	.0255	-0.1343	6.64	
8.80	-0.1901	.0440	-.0771	-0.2682	.0273	-0.1451	8.80	
10.97	-0.2039	.0541	-.0823	-0.2999	.0301	-0.1545	10.97	
13.11	-0.2016	.0558	-.0833	-0.3198	.0315	-0.1656	13.11	
15.28	-0.2028	.0626	-.0888	-0.3474	.0306	-0.1698	15.28	
17.48	-0.1828	.0513	-.0895	-0.3494	.0266	-0.1784	17.48	
19.63	-0.1090	.0237	-.0619	-0.3529	.0229	-.01840	19.63	
	Speed brakes, upper				Speed brakes, lower			
-10.62	1.0523	-.0942	.5239	.7187	-.1015	.3744	-10.62	
-8.43	1.0299	-.0969	.5236	.6813	-.0910	.3648	-8.43	
-6.21	.9937	-.0941	.5043	.6406	-.0663	.3449	-6.21	
-4.12	.9576	-.0915	.4820	.6229	-.0392	.3450	-4.12	
-1.97	.9025	-.0861	.4566	.7137	-.0495	.3842	-1.97	
.16	.8202	-.0649	.4285	.8478	-.0762	.4405	.16	
2.34	.7118	-.0623	.3779	.9224	-.0978	.4694	2.34	
4.50	.7581	-.1103	.3927	.9935	-.1110	.5001	4.50	
6.64	.8475	-.1424	.4309	1.0700	-.1298	.5361	6.64	
8.80	.9071	-.1237	.4612	1.1261	-.1378	.5620	8.80	
10.97	.8941	-.1104	.4614	1.1752	-.1430	.5861	10.97	
13.11	.8976	-.1050	.4612	1.2180	-.1482	.6078	13.11	
15.28	.8224	-.0889	.4292	1.2666	-.1452	.6333	15.28	
17.48	.6421	-.0862	.3371	1.3340	-.1421	.6602	17.48	
19.63	.5070	-.0650	.2781	1.3902	-.1446	.6821	19.63	

TABLE VIII. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS
FOR CONFIGURATION, WFHVv; $\beta = 6.0^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$, $\delta_s = 35^\circ$ - Continued

(d) $M = 2.98$, $R = 4.06 \times 10^6$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg	
	Wing, left				Wing, right			
-10.58	-0.3111	.0306	-.1324	-.3107	.0346	-.1272	-10.58	
-8.37	-0.2872	.0251	-.1061	-.2329	.0271	-.1001	-8.37	
-6.24	-0.2304	.0197	-.0801	-.1741	.0219	-.0722	-6.24	
-4.11	-0.2487	.0147	-.0478	-.1089	.0155	-.0471	-4.11	
-1.97	-0.1494	.0094	-.0219	-.0032	.0062	-.0251	-1.97	
.19	-0.0590	.0078	.0032	.0297	.0016	.0016	.19	
2.30	.0297	.0040	.0251	.0650	-.0032	.0279	2.30	
4.44	.1426	-.0012	.0439	.1344	-.0088	.0514	4.44	
6.58	.1988	-.0084	.0726	.1619	.0139	.0837	6.58	
8.71	.2210	-.0145	.1025	.2192	-.0163	.1136	8.71	
10.85	.2471	-.0197	.1288	.2764	-.0211	.1439	10.85	
12.99	.2822	-.0281	.1543	.3371	-.0281	.1766	12.99	
15.16	.3293	-.0346	.1750	.4059	-.0350	.2097	15.16	
17.35	.3767	-.0402	.2030	.4870	-.0432	.2472	17.35	
19.55	.4298	-.0479	.2277	.5493	-.0519	.2827	19.55	
21.72	.4797	-.0569	.2560	.6410	-.0615	.3150	21.72	
	Horizontal tail, left				Horizontal tail, right			
-10.58	-0.2020	.0345	-.0739	-.2573	.0382	-.1003	-10.58	
-8.37	-0.1523	.0219	-.0492	-.2002	.0232	-.0806	-8.37	
-6.24	-0.1118	.0146	-.0258	-.1491	.0150	-.0618	-6.24	
-4.11	-0.0884	.0075	-.0115	-.1110	.0160	-.0491	-4.11	
-1.97	-0.0621	-.0024	.0071	-.0804	.0114	-.0310	-1.97	
.19	-0.0257	-.0095	.0266	-.0487	.0039	-.0077	.19	
2.30	.0056	-.0204	.0476	-.0048	-.0046	.0151	2.30	
4.44	.0439	-.0340	.0720	.0497	-.0121	.0378	4.44	
6.58	.0986	-.0460	.0998	.1309	-.0235	.0614	6.58	
8.71	.1503	-.0582	.1229	.1936	-.0386	.0896	8.71	
10.85	.1872	-.0653	.1408	.2721	-.0584	.1200	10.85	
12.99	.2255	-.0738	.1609	.3319	-.0728	.1415	12.99	
15.16	.2663	-.0846	.1820	.3748	-.0885	.1662	15.16	
17.35	.3327	-.0991	.2090	.4822	-.1147	.2017	17.35	
19.55	.3944	-.1110	.2337	.5469	-.1353	.2302	19.55	
21.72	.4525	-.1247	.2617	.6419	-.1608	.2627	21.72	
	Vertical tail, upper				Vertical tail, lower			
-10.58	-0.3354	.0702	-.1312	-.1348	.0328	-.0697	-10.58	
-8.37	-0.3094	.0643	-.1227	-.1322	.0310	-.0740	-8.37	
-6.24	-0.2853	.0585	-.1140	-.1369	.0277	-.0768	-6.24	
-4.11	-0.2612	.0528	-.1064	-.1504	.0273	-.0796	-4.11	
-1.97	-0.2419	.0471	-.0996	-.1700	.0295	-.0856	-1.97	
.19	-0.2206	.0420	-.0929	-.1890	.0327	-.0942	.19	
2.30	-0.1990	.0371	-.0858	-.2133	.0373	-.1024	2.30	
4.44	-0.1850	.0343	-.0789	-.2369	.0422	-.1098	4.44	
6.58	-0.1724	.0330	-.0734	-.2614	.0480	-.1192	6.58	
8.71	-0.1554	.0337	-.0688	-.2819	.0533	-.1294	8.71	
10.85	-0.1566	.0389	-.0658	-.3070	.0581	-.1377	10.85	
12.99	-0.1496	.0414	-.0635	-.3240	.0618	-.1459	12.99	
15.16	-0.1360	.0420	-.0615	-.3471	.0655	-.1547	15.16	
17.35	-0.1100	.0334	-.0567	-.3672	.0694	-.1667	17.35	
19.55	-0.0894	.0257	-.0447	-.3870	.0712	-.1755	19.55	
21.72	-0.0818	.0240	-.0392	-.4107	.0749	-.1863	21.72	
	Speed brakes, upper				Speed brakes, lower			
-10.58	.9640	-.1421	.5184	.4785	-.0680	.2479	-10.58	
-8.37	.9155	-.1320	.4935	.4663	-.0630	.2449	-8.37	
-6.24	.8703	-.1270	.4698	.4406	-.0529	.2389	-6.24	
-4.11	.8204	-.1244	.4415	.4602	-.0296	.2549	-4.11	
-1.97	.7635	-.1192	.4073	.5384	-.0217	.3052	-1.97	
.19	.6812	-.0966	.3736	.6689	-.0599	.3674	.19	
2.30	.5475	-.0839	.3000	.7714	-.0852	.4113	2.30	
4.44	.5105	-.1088	.2668	.8508	-.1055	.4494	4.44	
6.58	.5252	-.1413	.2641	.9238	-.1129	.4867	6.58	
8.71	.6055	-.1544	.3116	.9955	-.1259	.5263	8.71	
10.85	.6294	-.1467	.3325	1.0636	-.1358	.5639	10.85	
12.99	.5028	-.1317	.3114	1.1396	-.1485	.6031	12.99	
15.16	.5185	-.1215	.2739	1.2232	-.1611	.6457	15.16	
17.35	.3863	-.1090	.2073	1.3281	-.1763	.6946	17.35	
19.55	.3150	-.0963	.1812	1.4468	-.1831	.7491	19.55	
21.72	.2784	-.0861	.1551	1.5756	-.1902	.8075	21.72	

TABLE VIII. - SURFACE LOADING CHARACTERISTICS AT VARIOUS REYNOLDS NUMBERS

FOR CONFIGURATION, WFFHVv; $\beta = 6.0^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_v = 0^\circ$, $\delta_s = 35^\circ$ - Concluded(e) $M = 4.85$, $R = 4.43 \times 10^6$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left							
-9.61	-.1723	.0161	-.0730	-.1572	.0153	-.0794	-9.61
-7.44	-.1396	.0131	-.0574	-.0846	.0113	-.0630	-7.44
-5.39	-.1743	.0115	-.0327	-.0399	.0080	-.0475	-5.39
-3.37	-.1320	.0088	-.0195	-.0183	.0038	-.0287	-3.37
-1.28	-.1213	.0058	-.0008	.0050	.0012	-.0072	-1.28
.76	-.0889	.0030	.0120	.0371	-.0018	.0100	.76
2.81	.0094	.0030	.0191	.0580	-.0030	.0291	2.81
4.91	.0164	.0000	.0351	.0880	-.0078	.0431	4.91
6.95	.0485	-.0030	.0494	.1821	-.0115	.0570	6.95
9.02	.0710	-.0062	.0666	.2150	-.0119	.0758	9.02
11.09	.0943	-.0092	.0849	.2487	-.0117	.0961	11.09
13.19	.1562	-.0123	.1013	.3099	-.0103	.1184	13.19
15.30	.2000	-.0185	.1240	.3359	-.0129	.1439	15.30
17.34	.2621	-.0233	.1507	.3951	-.0175	.1750	17.34
19.47	.3255	-.0312	.1774	.4657	-.0239	.2050	19.47
21.59	.3943	-.0378	.2081	.5299	-.0283	.2420	21.59
Wing, right							
-9.61	-.1902	.0202	-.0422	-.1840	.0205	-.0559	-9.61
-7.44	-.1593	.0146	-.0297	-.1389	.0151	-.0448	-7.44
-5.39	-.1186	.0093	-.0148	-.0978	.0049	-.0269	-5.39
-3.37	-.0900	.0052	-.0060	-.0784	.0060	-.0203	-3.37
-1.28	-.0699	-.0026	.0062	-.0752	.0051	-.0117	-1.28
.76	-.0415	-.0079	.0219	-.0491	.0011	.0005	.76
2.81	-.0176	-.0144	.0385	-.0036	-.0029	.0135	2.81
4.91	.0074	-.0222	.0502	.0409	-.0081	.0323	4.91
6.95	.0299	-.0296	.0629	.0988	-.0152	.0477	6.95
9.02	.0629	-.0363	.0760	.1184	-.0214	.0620	9.02
11.09	.0834	-.0450	.0932	.1523	-.0276	.0763	11.09
13.19	.1168	-.0537	.1117	.1966	-.0337	.0925	13.19
15.30	.1605	-.0644	.1349	.2619	-.0441	.1116	15.30
17.34	.2206	-.0798	.1635	.3196	-.0587	.1367	17.34
19.47	.2852	-.0929	.1918	.3832	-.0721	.1609	19.47
21.59	.3459	-.1103	.2282	.4491	-.0889	.1885	21.59
Horizontal tail, left							
-9.61	-.1902	.0202	-.0422	-.1840	.0205	-.0559	-9.61
-7.44	-.1593	.0146	-.0297	-.1389	.0151	-.0448	-7.44
-5.39	-.1186	.0093	-.0148	-.0978	.0049	-.0269	-5.39
-3.37	-.0900	.0052	-.0060	-.0784	.0060	-.0203	-3.37
-1.28	-.0699	-.0026	.0062	-.0752	.0051	-.0117	-1.28
.76	-.0415	-.0079	.0219	-.0491	.0011	.0005	.76
2.81	-.0176	-.0144	.0385	-.0036	-.0029	.0135	2.81
4.91	.0074	-.0222	.0502	.0409	-.0081	.0323	4.91
6.95	.0299	-.0296	.0629	.0988	-.0152	.0477	6.95
9.02	.0629	-.0363	.0760	.1184	-.0214	.0620	9.02
11.09	.0834	-.0450	.0932	.1523	-.0276	.0763	11.09
13.19	.1168	-.0537	.1117	.1966	-.0337	.0925	13.19
15.30	.1605	-.0644	.1349	.2619	-.0441	.1116	15.30
17.34	.2206	-.0798	.1635	.3196	-.0587	.1367	17.34
19.47	.2852	-.0929	.1918	.3832	-.0721	.1609	19.47
21.59	.3459	-.1103	.2282	.4491	-.0889	.1885	21.59
Horizontal tail, right							
-9.61	-.1902	.0202	-.0422	-.1840	.0205	-.0559	-9.61
-7.44	-.1593	.0146	-.0297	-.1389	.0151	-.0448	-7.44
-5.39	-.1186	.0093	-.0148	-.0978	.0049	-.0269	-5.39
-3.37	-.0900	.0052	-.0060	-.0784	.0060	-.0203	-3.37
-1.28	-.0699	-.0026	.0062	-.0752	.0051	-.0117	-1.28
.76	-.0415	-.0079	.0219	-.0491	.0011	.0005	.76
2.81	-.0176	-.0144	.0385	-.0036	-.0029	.0135	2.81
4.91	.0074	-.0222	.0502	.0409	-.0081	.0323	4.91
6.95	.0299	-.0296	.0629	.0988	-.0152	.0477	6.95
9.02	.0629	-.0363	.0760	.1184	-.0214	.0620	9.02
11.09	.0834	-.0450	.0932	.1523	-.0276	.0763	11.09
13.19	.1168	-.0537	.1117	.1966	-.0337	.0925	13.19
15.30	.1605	-.0644	.1349	.2619	-.0441	.1116	15.30
17.34	.2206	-.0798	.1635	.3196	-.0587	.1367	17.34
19.47	.2852	-.0929	.1918	.3832	-.0721	.1609	19.47
21.59	.3459	-.1103	.2282	.4491	-.0889	.1885	21.59
Vertical tail, upper							
-9.61	-.2223	.0543	-.0888	-.0568	.0196	-.0643	-9.61
-7.44	-.2032	.0507	-.0835	-.0705	.0227	-.0649	-7.44
-5.39	-.1941	.0473	-.0782	-.0799	.0229	-.0691	-5.39
-3.37	-.1769	.0450	-.0752	-.0899	.0255	-.0700	-3.37
-1.28	-.1668	-.0422	-.0725	-.1044	.0295	-.0737	-1.28
.76	-.1638	.0384	-.0700	-.1168	.0343	-.0779	.76
2.81	-.1548	.0342	-.0693	-.1283	.0378	-.0796	2.81
4.91	-.1437	.0301	-.0661	-.1366	.0410	-.0842	4.91
6.95	-.1258	.0271	-.0629	-.1439	.0433	-.0859	6.95
9.02	-.1146	.0273	-.0576	-.1549	.0459	-.0902	9.02
11.09	-.0989	.0240	-.0507	-.1784	.0498	-.0893	11.09
13.19	-.0823	.0211	-.0431	-.2028	.0537	-.0973	13.19
15.30	-.0628	.0172	-.0376	-.2208	.0572	-.1035	15.30
17.34	-.0541	.0155	-.0273	-.2394	.0627	-.1118	17.34
19.47	-.0429	.0124	-.0193	-.2679	.0699	-.1212	19.47
21.59	-.0386	.0121	-.0172	-.3170	.0959	-.1451	21.59
Vertical tail, lower							
-9.61	.6673	-.0393	.3747	.1693	-.0386	.0812	-9.61
-7.44	.5701	-.0392	.3218	.1800	-.0310	.0965	-7.44
-5.39	.5182	-.0546	.2950	.1904	-.0194	.1143	-5.39
-3.37	.4877	-.0586	.2868	.2365	-.0157	.1509	-3.37
-1.28	.4282	-.0355	.2601	.3239	-.0117	.2089	-1.28
.76	.3559	-.0123	.2208	.4153	-.0468	.2547	.76
2.81	.2733	-.0157	.1548	.5159	-.0779	.3055	2.81
4.91	.2173	-.0271	.1082	.5900	-.0978	.3420	4.91
6.95	.2478	-.0462	.1255	.6735	-.1167	.3828	6.95
9.02	.3042	-.0543	.1668	.7555	-.1205	.4194	9.02
11.09	.3085	-.0465	.1712	.8628	-.1354	.4737	11.09
13.19	.2446	-.0388	.1374	.9976	-.1471	.5460	13.19
15.30	.1317	-.0194	.0752	1.1459	-.1659	.6228	15.30
17.34	.0597	-.0118	.0480	1.3117	-.1890	.7097	17.34
19.47	.0584	-.0079	.0415	1.4663	-.2120	.7850	19.47
21.59	.0723	.0037	.0408	1.6144	-.2311	.8573	21.59

TABLE IX. - SURFACE LOADING CHARACTERISTICS AT VARIOUS EQUAL DEFLECTIONS
OF THE HORIZONTAL TAIL PANELS WITH THE VERTICAL TAILS

UNDEFLECTED FOR CONFIGURATION, WFHVv; $\beta = 0^\circ$
(a) $M = 2.29$, $R = 1.87 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = -35^\circ$, $\delta_S = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg	
	Wing, left			Wing, right				
-10.18	-0.3871	0.0310	-0.1575	-0.3025	0.0314	-0.1507	-10.18	
-8.07	-0.3751	0.0241	-0.1236	-0.2531	0.0261	-0.1220	-8.07	
-6.02	-0.3620	0.0169	-0.0881	-0.1835	0.0185	-0.0901	-6.02	
-3.88	-0.2429	0.0119	-0.0542	-0.0357	0.0094	-0.0606	-3.88	
-1.80	-0.1546	0.0070	-0.0211	-0.0074	0.0030	-0.0207	-1.80	
.29	-0.0423	0.0036	.0092	.01035	.0024	.0096	.29	
2.32	-0.0056	0.0018	.0475	.1133	.0018	.0486	2.32	
4.42	.1149	-0.0056	.0786	.1370	-0.0028	.0841	4.42	
6.55	.2607	-0.0133	.1029	.2499	-0.0151	.1124	6.55	
8.62	.2916	-0.0207	.1388	.2890	-0.0219	.1475	8.62	
10.71	.3365	-0.0281	.1723	.3726	-0.0298	.1802	10.71	
12.81	.3636	-0.0374	.2042	.3789	-0.0350	.2141	12.81	
14.91	.4053	-0.0452	.2353	.4563	-0.0448	.2412	14.91	
17.02	.4507	-0.0545	.2684	.4932	-0.0553	.2731	17.02	
19.17	.4930	-0.0623	.2995	.5696	-0.0651	.2995	19.17	
21.30	.5512	-0.0720	.3298	.7036	-0.0798	.3214	21.30	
	Horizontal tail, left				Horizontal tail, right			
-10.18	-1.1585	0.2895	-0.4306	-0.9702	0.3114	-0.4397	-10.18	
-8.07	-1.0902	0.2378	-0.3963	-0.9269	0.2490	-0.4053	-8.07	
-6.02	-1.0920	0.2127	-0.4063	-0.9237	0.2226	-0.4183	-6.02	
-3.88	-1.0593	0.2022	-0.4109	-0.9351	0.2135	-0.4170	-3.88	
-1.80	-1.0728	0.1967	-0.4030	-0.9166	0.2057	-0.4096	-1.80	
.29	-1.0575	0.1864	-0.3906	-0.8844	0.1931	-0.3979	.29	
2.32	-0.9920	0.1758	-0.3720	-0.8339	0.1805	-0.3780	2.32	
4.42	-0.9062	0.1538	-0.3386	-0.7437	0.1591	-0.3454	4.42	
6.55	-0.8020	0.1292	-0.3026	-0.6591	0.1378	-0.3120	6.55	
8.62	-0.7140	0.1027	-0.2656	-0.5928	0.1165	-0.2772	8.62	
10.71	-0.6375	0.0807	-0.2295	-0.5060	0.0913	-0.2408	10.71	
12.81	-0.5748	0.0571	-0.1988	-0.4253	0.0635	-0.2101	12.81	
14.91	-0.5313	0.0387	-0.1768	-0.3848	0.0457	-0.1883	14.91	
17.02	-0.4601	0.0124	-0.1485	-0.3621	0.0190	-0.1581	17.02	
19.17	-0.4150	0.0033	-0.1315	-0.3277	0.0010	-0.1375	19.17	
21.30	-0.4060	0.0166	-0.1168	-0.3094	-0.0141	-0.1170	21.30	
	Vertical tail, upper				Vertical tail, lower			
-10.18	-0.0012	-0.0005	-0.0064	.0079	.0068	-0.0142	-10.18	
-8.07	-0.0030	-0.0005	-0.0053	.0084	.0068	-0.0105	-8.07	
-6.02	-0.0020	0.0000	-0.0048	.0075	.0068	-0.0080	-6.02	
-3.88	-0.0011	0.0008	-0.0041	.0054	.0068	-0.0063	-3.88	
-1.80	0.0000	0.0008	-0.0037	.0033	.0068	-0.0046	-1.80	
.29	-0.0012	0.0016	-0.0041	.0045	.0068	-0.0037	.29	
2.32	.0009	0.0016	-0.0032	-0.0007	.0063	-0.0011	2.32	
4.42	-0.0006	0.0013	-0.0021	-0.0019	.0063	-0.0020	4.42	
6.55	.0020	0.0016	-0.0028	.0014	.0063	-0.0028	6.55	
8.62	-0.0025	0.0021	-0.0009	.0002	.0063	-0.0037	8.62	
10.71	.0020	0.0021	-0.0028	.0014	.0063	-0.0028	10.71	
12.81	.0005	0.0008	-0.0016	.0056	.0063	-0.0063	12.81	
14.91	-0.0025	0.0016	-0.0009	.0077	.0061	-0.0080	14.91	
17.02	-0.0036	0.0016	-0.0016	.0014	.0063	-0.0028	17.02	
19.17	-0.0019	0.0025	-0.0025	-0.0007	.0063	-0.0011	19.17	
21.30	-0.0019	0.0016	-0.0025	.0084	.0055	-0.0046	21.30	

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87

TABLE IX. - SURFACE LOADING CHARACTERISTICS AT VARIOUS EQUAL DEFLECTIONS

OF THE HORIZONTAL TAIL PANELS WITH THE VERTICAL TAILS

UNDEFLECTED FOR CONFIGURATION, WFHVv; $\beta = 0^\circ$ - Continued(b) $M = 2.98$, $R = 1.87 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = -35^\circ$, $\delta_S = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-10.05	-2998	.0227	-.1176	-2044	.0261	-.1105	-10.05
-8.00	-2485	.0165	-.0921	-2690	.0259	-.0821	-8.00
-5.91	-2136	.0123	-.0646	-2194	.0193	-.0562	-5.91
-3.92	-1135	.0064	-.0451	-1179	.0143	-.0343	-3.92
-1.78	-0772	.0042	-.0159	-0321	.0070	-.0100	-1.78
.24	-0517	.0022	.0096	.0098	.0048	.0112	.24
2.30	.0181	.0000	.0303	.0185	.0012	.0363	2.30
4.37	.1197	-.0044	.0498	.0826	-.0058	.0582	4.37
6.41	.2048	-.0068	.0718	.1288	-.0056	.0845	6.41
8.48	.2248	-.0111	.1017	.1416	-.0064	.1144	8.48
10.54	.2776	-.0179	.1268	.1749	-.0099	.1443	10.54
12.62	.3325	-.0247	.1535	.2252	-.0163	.1723	12.62
14.70	.3698	-.0332	.1810	.2922	-.0255	.1974	14.70
16.79	.4152	-.0422	.2149	.3321	-.0336	.2325	16.79
18.87	.4400	-.0487	.2480	.3660	-.0396	.2628	18.87
20.97	.5367	-.0583	.2759	.4561	-.0513	.2919	20.97
Horizontal tail, left				Horizontal tail, right			
-10.05	-9537	.2678	-.3878	-7940	.2598	-.3828	-10.05
-8.00	-9625	.2441	-.3710	-7862	.2614	-.3768	-8.00
-5.91	-10046	.2012	-.3711	-8305	.2106	-.3709	-5.91
-3.92	-9818	.1858	-.3665	-8259	.1754	-.3678	-3.92
-1.78	-9686	.1657	-.3520	-7734	.1716	-.3461	-1.78
.24	-9321	.1485	-.3368	-7407	.1579	-.3337	.24
2.30	.8613	.1314	-.3155	.6742	.1430	-.3143	2.30
4.37	.7904	.1113	-.2864	.5902	.1251	-.2882	4.37
6.41	.7114	.0881	-.2507	.5016	.1027	-.2532	6.41
8.48	.6269	.0633	-.2195	.4152	.0758	-.2238	8.48
10.54	.5936	.0381	-.1959	.3950	.0546	-.2003	10.54
12.62	.5441	.0117	-.1719	.3707	.0288	-.1759	12.62
14.70	.5373	-.0088	-.1573	.3691	.0107	-.1617	14.70
16.79	.5301	-.0229	-.1493	.3669	-.0078	-.1519	16.79
18.87	.5383	-.0230	-.1534	.3675	-.0092	-.1545	18.87
20.97	.5317	-.0263	-.1585	.3834	-.0125	-.1559	20.97
Vertical tail, upper				Vertical tail, lower			
-10.05	.0033	.0015	-.0050	.0114	.0011	-.0026	-10.05
-8.00	.0014	.0010	-.0037	.0119	.0013	-.0017	-8.00
-5.91	.0026	.0005	-.0032	.0049	.0013	-.0003	-5.91
-3.92	.0028	.0000	-.0032	.0021	.0018	-.0023	-3.92
-1.78	.0040	.0000	-.0025	.0049	.0013	-.0003	-1.78
.24	.0131	.0000	-.0032	.0121	.0013	-.0017	.24
2.30	.0131	-.0005	-.0032	.0056	.0013	-.0009	2.30
4.37	.0131	-.0005	-.0032	.0121	.0013	-.0017	4.37
6.41	.0059	-.0005	-.0007	.0121	.0013	-.0017	6.41
8.48	.0059	-.0005	-.0007	.0199	.0011	-.0057	8.48
10.54	.0014	-.0005	.0007	.0262	.0011	-.0068	10.54
12.62	.0014	-.0005	.0007	.0224	.0011	-.0046	12.62
14.70	.0012	.0000	.0007	.0224	.0011	-.0046	14.70
16.79	.0047	.0000	.0000	.0262	.0011	-.0068	16.79
18.87	-.0003	.0015	.0000	.0224	.0011	-.0046	18.87
20.97	.0061	-.0010	.0005	.0154	.0011	-.0037	20.97

TABLE IX. - SURFACE LOADING CHARACTERISTICS AT VARIOUS EQUAL DEFLECTIONS

OF THE HORIZONTAL TAIL PANELS WITH THE VERTICAL TAILS

UNDEFLECTED FOR CONFIGURATION, WFFHV; $\beta = 0^\circ$ - Continued(c) $M = 4.65$, $R = 2.28 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = -35^\circ$, $\delta_s = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-9.43	-.2756	.0082	-.0574	-.0489	.0070	-.0682	-9.43
-7.29	-.2313	.0084	-.0415	-.0796	.0086	-.0486	-7.29
-5.30	-.1863	.0056	-.0263	-.0371	.0022	-.0347	-5.30
-3.29	-.2076	.0026	-.0028	-.0259	-.0016	-.0239	-3.29
-1.23	-.2086	-.0002	.0159	.0005	-.0115	-.0148	-1.23
.79	-.0921	-.0030	.0163	.0874	-.0169	.0048	.79
2.81	-.0178	-.0058	.0251	.1296	-.0201	.0187	2.81
4.86	.0447	-.0058	.0355	.1466	-.0165	.0363	4.86
6.88	.0670	-.0030	.0546	.1414	-.0125	.0570	6.88
8.92	.1179	-.0117	.0718	.1871	-.0157	.0750	8.92
10.99	.1661	-.0147	.0893	.2108	-.0181	.0965	10.99
13.01	.1964	-.0207	.1120	.2136	-.0233	.1216	13.01
15.06	.2521	-.0207	.1360	.2405	-.0219	.1475	15.06
17.10	.2930	-.0267	.1675	.2984	-.0277	.1766	17.10
19.19	.3809	-.0358	.1938	.3550	-.0304	.2058	19.19
21.24	.4651	-.0392	.2185	.4854	-.0454	.2289	21.24
Horizontal tail, left				Horizontal tail, right			
-9.43	-.9078	.2713	-.3512	-.7926	.2680	-.3577	-9.43
-7.29	-.8307	.2673	-.3378	-.7150	.2557	-.3455	-7.29
-5.30	-.8283	.1990	-.3252	-.7068	.2081	-.3294	-5.30
-3.29	-.7583	.1629	-.3007	-.6653	.1733	-.2980	-3.29
-1.23	-.7776	.1245	-.2673	-.5932	.1384	-.2728	-1.23
.79	-.7477	.1010	-.2566	-.5601	.1159	-.2600	.79
2.81	-.6914	.0779	-.2478	-.5144	.0971	-.2521	2.81
4.86	-.6776	.0566	-.2295	-.4902	.0767	-.2363	4.86
6.88	-.6557	.0289	-.2135	-.4693	.0498	-.2214	6.88
8.92	-.6459	.0033	-.2034	-.4768	.0229	-.2099	8.92
10.99	-.6535	-.0159	-.2068	-.4978	.0042	-.2071	10.99
13.01	-.6770	-.0245	-.2155	-.5319	-.0064	-.2128	13.01
15.06	-.7383	-.0270	-.2274	-.5724	-.0129	-.2269	15.06
17.10	-.7922	-.0293	-.2456	-.6110	-.0174	-.2451	17.10
19.19	-.8593	-.0361	-.2563	-.6890	-.0217	-.2554	19.19
21.24	-.8838	-.0385	-.2693	-.7092	-.0262	-.2688	21.24
Vertical tail, upper				Vertical tail, lower			
-9.43	.0008	.0013	-.0025	.0610	.0015	-.0165	-9.43
-7.29	.0008	.0013	-.0025	.0689	.0013	-.0196	-7.29
-5.30	.0009	.0007	-.0025	.0689	.0013	-.0196	-5.30
-3.29	.0054	.0007	-.0034	.0549	.0013	-.0156	-3.29
-1.23	-.0002	.0007	.0000	.0549	.0013	-.0156	-1.23
.79	.0054	.0007	-.0034	.0635	.0013	-.0171	.79
2.81	.0054	.0007	-.0034	.0582	.0013	-.0142	2.81
4.86	.0054	.0007	-.0034	.0582	.0013	-.0142	4.86
6.88	.0128	.0000	-.0028	.0491	.0022	-.0131	6.88
8.92	.0079	.0000	-.0009	.0491	.0022	-.0131	8.92
10.99	.0177	.0000	-.0044	.0544	.0022	-.0156	10.99
13.01	.0079	.0000	-.0009	.0458	.0024	-.0119	13.01
15.06	.0078	.0007	-.0009	.0458	.0024	-.0119	15.06
17.10	.0079	.0000	-.0009	.0544	.0022	-.0156	17.10
19.19	.0078	.0007	-.0009	.0498	.0024	-.0142	19.19
21.24	.0089	.0007	-.0018	.0498	.0024	-.0142	21.24

Debtors' Affairs

TABLE IX. - SURFACE LOADING CHARACTERISTICS AT VARIOUS EQUAL DEFLECTIONS
OF THE HORIZONTAL TAIL PANELS WITH THE VERTICAL TAILS

UNDEFLECTED FOR CONFIGURATION; WFHVv; $\beta = 0^\circ$ - Continued

(d) $M = 2.29$, $R = 1.87 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 15^\circ$, $\delta_S = 0^\circ$

(d) $M = 2.25$, $R = 1.0 \times 10^6$, $\epsilon_{H,L} = \epsilon_{H,R} = 0$, $\gamma_g = 1$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-10.31	-0.3359	.0422	-0.1631	-0.3676	.0368	-0.1479	-10.31
-8.20	-0.3791	.0348	-0.1236	-0.3965	.0342	-0.1152	-8.20
-6.09	-0.3394	.0261	-0.0925	-0.2172	.0251	-0.0885	-6.09
-4.03	-0.2507	.0209	-0.0578	-0.1342	.0191	-0.0586	-4.03
-1.94	-0.1177	.0161	-0.0271	-0.0433	.0113	-0.0219	-1.94
.13	-0.0297	.0109	.0072	-0.0048	.0103	.0148	.13
2.20	.0072	.0092	.0471	.0351	.0094	.0526	2.20
4.30	.1689	.0016	.0718	.1502	.0028	.0837	4.30
6.39	.2441	-0.0060	.1041	.1284	-0.0044	.1204	6.39
8.46	.3349	-0.0137	.1356	.2437	-0.0145	.1515	8.46
10.56	.3335	-0.0209	.1715	.3111	-0.0219	.1838	10.56
12.64	.3608	-0.0302	.2034	.3315	-0.0285	.2157	12.64
14.74	.4300	-0.0380	.2305	.3953	-0.0380	.2436	14.74
16.87	.4461	-0.0456	.2672	.4019	-0.0462	.2771	16.87
18.97	.5026	-0.0551	.2959	.4785	-0.0557	.3030	18.97
21.10	.5648	-0.0651	.3286	.6300	-0.0708	.3262	21.10
Horizontal tail, left				Horizontal tail, right			
-10.31	.0415	-0.0372	.0753	.1553	-0.0363	.0695	-10.31
-8.20	.1020	-0.0569	.1124	.2325	-0.0500	.1043	-8.20
-6.09	.1513	-0.0662	.1368	.3072	-0.0598	.1292	-6.09
-4.03	.2006	-0.0766	.1572	.3595	-0.0685	.1486	-4.03
-1.94	.2571	-0.0870	.1814	.4038	-0.0799	.1725	-1.94
.13	.3118	-0.0976	.2050	.4707	-0.0937	.1942	.13
2.20	.3669	-0.1094	.2282	.5140	-0.1062	.2192	2.20
4.30	.4146	-0.1197	.2515	.5870	-0.1174	.2404	4.30
6.39	.4563	-0.1357	.2796	.6487	-0.1299	.2668	6.39
8.46	.4894	-0.1516	.3066	.7002	-0.1476	.2936	8.46
10.56	.5593	-0.1712	.3331	.7698	-0.1652	.3204	10.56
12.64	.6271	-0.1913	.3615	.8455	-0.1842	.3476	12.64
14.74	.6928	-0.2056	.3871	.9106	-0.1993	.3741	14.74
16.87	.7655	-0.2242	.4214	.9776	-0.2208	.4093	16.87
18.97	.8351	-0.2425	.4513	1.0423	-0.2357	.4365	18.97
21.10	.8902	-0.2585	.4838	1.1078	-0.2507	.4676	21.10
Vertical tail, upper				Vertical tail, lower			
-10.31	.0053	.0003	-.0069	-.0002	-.0033	-.0011	-10.31
-8.20	.0075	.0003	-.0060	-.0094	-.0022	.0014	-8.20
-6.09	.0075	.0000	-.0060	-.0094	-.0022	.0014	-6.09
-4.03	.0075	.0003	-.0060	-.0129	-.0022	.0031	-4.03
-1.94	.0047	.0003	-.0053	-.0163	-.0022	.0048	-1.94
.13	.0086	.0003	-.0055	-.0121	-.0020	.0065	.13
2.20	.0067	.0008	-.0044	-.0163	-.0022	.0048	2.20
4.30	.0067	.0008	-.0044	-.0121	-.0020	.0065	4.30
6.39	.0107	.0013	-.0028	-.0163	-.0022	.0048	6.39
8.46	.0107	.0016	-.0028	-.0163	-.0022	.0048	8.46
10.56	.0106	.0021	-.0028	-.0129	-.0022	.0031	10.56
12.64	.0107	.0016	-.0028	-.0061	-.0022	-.0003	12.64
14.74	.0076	.0021	-.0039	-.0094	-.0022	.0014	14.74
16.87	.0048	.0021	-.0032	-.0163	-.0022	.0048	16.87
18.97	.0037	.0021	-.0037	-.0087	-.0022	.0057	18.97
21.10	.0064	.0029	-.0044	-.0044	-.0024	-.0009	21.10

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TABLE IX.- SURFACE LOADING CHARACTERISTICS AT VARIOUS EQUAL DEFLECTIONS
OF THE HORIZONTAL TAIL PANELS WITH THE VERTICAL TAILS
UNDEFLECTED FOR CONFIGURATION; WFFHV; $\beta = 0^\circ$ - Continued
(e) $M = 2.98$, $R = 1.87 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 15^\circ$, $\delta_S = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg	
	Wing, left				Wing, right			
-10.18	-0.2670	0.0356	-0.1176	-0.2774	0.0346	-0.1037	-10.18	
-8.06	-0.2666	0.0312	-0.0881	-0.3961	0.0354	-0.0710	-8.06	
-6.01	-0.1974	0.0231	-0.0638	-0.2930	0.0300	-0.0490	-6.01	
-3.97	-0.1304	0.0169	-0.0407	-0.2082	0.0227	-0.0263	-3.97	
-1.93	-0.0957	0.0149	-0.0132	-0.1795	0.0189	-0.0012	-1.93	
.13	0.0523	0.0107	0.0112	-0.1268	0.0145	0.0219	.13	
2.18	0.0676	0.0086	0.0263	-0.0353	0.0115	0.0423	2.18	
4.27	0.1851	0.0040	0.0431	0.0263	0.0046	0.0626	4.27	
6.32	0.2184	0.0018	0.0694	0.0187	0.0062	0.0917	6.32	
8.36	0.2724	-0.0026	0.0961	0.0662	0.0042	0.1180	8.36	
10.46	0.3101	-0.0115	0.1240	0.1015	0.0006	0.1503	10.46	
12.52	0.3123	-0.0179	0.1547	0.1322	-0.0056	0.1766	12.52	
14.57	0.3829	-0.0227	0.1790	0.2030	-0.0145	0.2054	14.57	
16.67	0.4120	-0.0312	0.2153	0.2234	-0.0223	0.2392	16.67	
18.71	0.4693	-0.0382	0.2432	0.2938	-0.0312	0.2680	18.71	
20.80	0.5315	-0.0474	0.2743	0.4164	-0.0436	0.2923	20.80	
	Horizontal tail, left				Horizontal tail, right			
-10.18	0.0164	-0.0157	0.0321	0.0882	-0.0133	0.0258	-10.18	
-8.06	0.0884	-0.0280	0.0560	0.1661	-0.0205	0.0461	-8.06	
-6.01	0.1403	-0.0420	0.0841	0.2317	-0.0353	0.0737	-6.01	
-3.97	0.1864	-0.0591	0.1161	0.2916	-0.0470	0.1049	-3.97	
-1.93	0.2385	-0.0700	0.1414	0.3601	-0.0574	0.1295	-1.93	
.13	0.2934	-0.0793	0.1646	0.4054	-0.0723	0.1521	.13	
2.18	0.3281	-0.0871	0.1850	0.4621	-0.0795	0.1716	2.18	
4.27	0.3762	-0.0946	0.2090	0.5030	-0.0882	0.1961	4.27	
6.32	0.4477	-0.1101	0.2361	0.5770	-0.1016	0.2211	6.32	
8.36	0.4834	-0.1273	0.2626	0.6427	-0.1165	0.2460	8.36	
10.46	0.5501	-0.1432	0.2907	0.6912	-0.1361	0.2750	10.46	
12.52	0.6142	-0.1600	0.3211	0.7750	-0.1536	0.3046	12.52	
14.57	0.6788	-0.1803	0.3509	0.8295	-0.1747	0.3365	14.57	
16.67	0.7724	-0.2068	0.3949	0.9223	-0.2000	0.3786	16.67	
18.71	0.8513	-0.2285	0.4323	1.0020	-0.2238	0.4158	18.71	
20.80	0.9527	-0.2521	0.4735	1.0623	-0.2445	0.4589	20.80	
	Vertical tail, upper				Vertical tail, lower			
-10.18	0.0005	0.0029	-0.0062	-0.0119	-0.0046	0.0085	-10.18	
-8.06	0.0051	0.0025	-0.0064	-0.0184	-0.0044	0.0117	-8.06	
-6.01	0.0065	0.0020	-0.0057	-0.0143	-0.0046	0.0108	6.01	
-3.97	0.0067	0.0015	-0.0057	-0.0168	-0.0046	0.0128	-3.97	
-1.93	0.0079	0.0015	-0.0050	-0.0236	-0.0037	0.0156	-1.93	
.13	0.0092	0.0015	-0.0046	-0.0171	-0.0039	0.0128	.13	
2.18	0.0114	0.0010	-0.0057	-0.0187	-0.0039	0.0117	2.18	
4.27	0.0114	0.0005	-0.0057	-0.0122	-0.0039	0.0088	4.27	
6.32	0.0093	0.0005	-0.0046	-0.0161	-0.0039	0.0097	6.32	
8.36	0.0093	0.0005	-0.0046	-0.0122	-0.0039	0.0088	8.36	
10.46	0.0129	0.0005	-0.0032	-0.0096	-0.0039	0.0065	10.46	
12.52	0.0129	0.0005	-0.0032	-0.0096	-0.0039	0.0065	12.52	
14.57	0.0129	0.0005	-0.0032	-0.0058	-0.0041	0.0057	14.57	
16.67	0.0065	0.0010	-0.0014	-0.0058	-0.0041	0.0057	16.67	
18.71	0.0054	0.0020	-0.0007	-0.0031	-0.0041	0.0037	18.71	
20.80	0.0185	0.0020	-0.0039	-0.0007	-0.0041	0.0028	20.80	

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91

TABLE IX.- SURFACE LOADING CHARACTERISTICS AT VARIOUS EQUAL DEFLECTIONS
OF THE HORIZONTAL TAIL PANELS WITH THE VERTICAL TAILS

UNDEFLECTED FOR CONFIGURATION, WFHVv; $\beta = 0^\circ$ - Continued(f) $M = 4.65$, $R = 2.28 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 15^\circ$, $\delta_B = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg	
	Wing, left				Wing, right			
-9.47	.3002	.0111	-.0558	.0237	.0056	-.0718	-9.47	
-7.37	.2527	.0084	-.0383	.1061	.0121	-.0471	-7.37	
-5.34	.2102	.0056	-.0251	.0383	.0054	-.0347	-5.34	
-3.32	.2290	.0026	-.0004	.0503	-.0020	-.0251	-3.32	
-1.29	.2086	-.0002	.0159	.1270	-.0121	-.0159	-1.29	
.75	.0921	-.0030	.0163	.0874	-.0169	.0048	.75	
2.79	.0178	-.0058	.0251	.1296	-.0201	.0187	2.79	
4.83	.0652	-.0030	.0323	.1209	-.0068	.0399	4.83	
6.87	.0676	-.0058	.0546	.1633	-.0068	.0562	6.87	
8.87	.0937	-.0117	.0734	.1603	-.0026	.0790	8.87	
10.92	.1420	-.0147	.0909	.2084	-.0119	.0969	10.92	
12.98	.1715	-.0177	.1136	.1869	-.0161	.1228	12.98	
14.97	.2286	-.0237	.1372	.2150	-.0183	.1487	14.97	
17.04	.2912	-.0296	.1651	.2730	-.0243	.1778	17.04	
19.10	.3540	-.0358	.1930	.3311	-.0300	.2069	19.10	
21.20	.4659	-.0422	.2185	.4162	-.0392	.2369	21.20	
	Horizontal tail, left				Horizontal tail, right			
-9.47	-.0008	-.0065	.0136	-.0251	-.0059	.0179	-9.47	
-7.37	.0273	-.0084	.0229	-.0289	-.0100	.0290	-7.37	
-5.34	.0703	-.0190	.0384	.0224	-.0180	.0416	-5.34	
-3.32	.0900	-.0339	.0610	.0713	-.0280	.0631	-3.32	
-1.29	.1431	-.0464	.0862	.1695	-.0360	.0831	-1.29	
.75	.1892	-.0611	.1124	.2279	-.0458	.1069	.75	
2.79	.1874	-.0719	.1454	.2928	-.0599	.1335	2.79	
4.83	.2355	-.0845	.1734	.3495	-.0718	.1614	4.83	
6.87	.2844	-.1036	.2051	.4210	-.0901	.1920	6.87	
8.87	.3257	-.1227	.2440	.4908	-.1101	.2285	8.87	
10.92	.3846	-.1438	.2859	.6491	-.1323	.2702	10.92	
12.98	.4784	-.1669	.3303	.6651	-.1542	.3127	12.98	
14.97	.5710	-.1924	.3790	.7391	-.1804	.3609	14.97	
17.04	.6806	-.2196	.4312	.8611	-.2044	.4094	17.04	
19.10	.7718	-.2388	.4701	.9704	-.2225	.4479	19.10	
21.20	.8617	-.2598	.5133	1.0680	-.2424	.4891	21.20	
	Vertical tail, upper				Vertical tail, lower			
-9.47	.0006	.0020	-.0025	.0860	.0011	-.0222	-9.47	
-7.37	.0008	.0013	-.0025	.0722	.0011	-.0182	-7.37	
-5.34	.0053	.0013	-.0034	.0720	.0011	-.0182	-5.34	
-3.32	.0053	.0013	-.0034	.0329	.0017	-.0117	-3.32	
-1.29	.0053	.0013	-.0034	.0635	.0013	-.0171	-1.29	
.75	.0054	.0007	-.0034	.0512	.0015	-.0082	.75	
2.79	.0176	.0007	-.0044	.0512	.0015	-.0082	2.79	
4.83	.0176	.0007	-.0044	.0428	.0015	-.0040	4.83	
6.87	.0177	.0000	-.0044	.0428	.0015	-.0040	6.87	
8.87	.0177	.0000	-.0044	.0315	.0015	-.0074	8.87	
10.92	.0257	.0000	-.0053	.0334	.0015	-.0057	10.92	
12.98	.0090	.0000	-.0018	.0315	.0015	-.0074	12.98	
14.97	.0090	.0000	-.0018	.0428	.0015	-.0040	14.97	
17.04	.0090	.0000	-.0018	.0507	.0024	-.0082	17.04	
19.10	.0090	.0000	-.0018	.0717	.0020	-.0182	19.10	
21.20	.0154	-.0007	-.0018	.0717	.0020	-.0182	21.20	

**TABLE IX. - SURFACE LOADING CHARACTERISTICS AT VARIOUS EQUAL DEFLECTIONS
OF THE HORIZONTAL TAIL PANELS WITH THE VERTICAL TAILS**

UNDEFLECTED FOR CONFIGURATION; WFHVv; $\beta = 0^\circ$ - Continued

(g) $M = 2.29$, $R = 1.87 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = -20^\circ$, $\delta_s = 350$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-10.27	-0.2984	.0370	-0.1719	-0.3418	.0398	-0.1531	-10.27
-8.11	-0.3237	.0281	.1304	-0.3686	.0354	-0.1192	-8.11
-6.05	-0.3251	.0225	-0.0945	-0.2655	.0275	-0.0873	-6.05
-3.95	-0.2082	.0157	-0.0630	-0.2112	.0203	-0.0546	-3.95
-1.85	-0.1011	.0107	-0.0279	-0.1043	.0105	-0.0191	-1.85
.24	.0205	.0054	.0032	-0.0191	.0048	.0140	.24
2.33	.0523	.0036	.0435	.0187	.0058	.0502	2.33
4.41	.1715	-.0020	.0730	.0868	.0042	.0841	4.41
6.50	.3357	-.0119	.0977	.2008	-.0060	.1140	6.50
8.56	.3662	-.0173	.1336	.1783	-.0115	.1503	8.56
10.67	.3951	-.0267	.1667	.2629	-.0191	.1834	10.67
12.75	.4505	-.0344	.1958	.3131	-.0281	.2133	12.75
14.85	.4932	-.0440	.2265	.4075	-.0382	.2412	14.85
16.97	.5231	-.0515	.2608	.4292	-.0466	.2739	16.97
19.03	.5782	-.0595	.2887	.5195	-.0567	.2983	19.03
21.18	.6372	-.0694	.3190	.5981	-.0682	.3258	21.18
Horizontal tail, left				Horizontal tail, right			
-10.27	-0.7164	.1590	-0.2762	-0.6299	.1583	-0.2777	-10.27
-8.11	-0.6864	.1512	-0.2589	-0.5597	.1481	-0.2643	-8.11
-6.05	-0.6593	.1234	-0.2478	-0.5465	.1225	-0.2495	-6.05
-3.95	-0.6303	.1155	-0.2537	-0.5237	.1121	-0.2522	-3.95
-1.85	-0.6066	.1143	-0.2546	-0.4782	.1082	-0.2519	-1.85
.24	.5810	.1078	-0.2424	-0.4215	.1044	-0.2434	.24
2.33	.5219	.0959	-0.2207	-0.3701	.0945	-0.2216	2.33
4.41	.4489	.0804	-0.1891	-0.3018	.0758	-0.1888	4.41
6.50	.3565	.0595	-0.1520	-0.2237	.0542	-0.1499	6.50
8.56	.2623	.0387	-0.1138	-0.1848	.0368	-0.1131	8.56
10.67	.2030	.0218	-0.0731	-0.1238	.0167	-0.0752	10.67
12.75	.1413	.0047	-0.0442	-0.0663	-.0009	-0.0453	12.75
14.85	.1074	-.0072	-0.0226	-0.0509	-.0109	-0.0242	14.85
16.97	.0485	-.0321	.0049	.0204	-.0336	.0041	16.97
19.03	-.0076	-.0481	.0210	.0571	-.0503	.0248	19.03
21.18	.0210	-.0598	.0403	.0962	-.0615	.0429	21.18
Vertical tail, upper				Vertical tail, lower			
-10.27	-.0022	-.0018	-.0069	.0000	.0041	-.0048	-10.27
-8.11	.0006	-.0018	-.0076	-.0019	.0035	-.0034	-8.11
-6.05	-.0012	-.0019	-.0064	-.0054	.0018	.0000	-6.05
-3.95	-.0002	-.0005	-.0057	-.0072	.0013	.0017	-3.95
-1.85	.0008	.0000	-.0053	-.0087	.0000	.0026	-1.85
.24	.0019	.0003	-.0048	-.0171	-.0004	.0048	.24
2.33	.0000	.0008	-.0037	-.0170	-.0009	.0048	2.33
4.41	.0030	.0003	-.0044	-.0166	-.0015	.0048	4.41
6.50	.0039	.0008	-.0037	-.0166	-.0015	.0048	6.50
8.56	.0009	.0021	-.0032	-.0166	-.0015	.0048	8.56
10.67	-.0059	.0069	-.0041	-.0115	-.0011	.0040	10.67
12.75	.0022	.0013	-.0028	-.0101	-.0011	.0014	12.75
14.85	.0026	.0016	-.0044	-.0084	-.0006	.0026	14.85
16.97	.0011	.0008	-.0032	-.0087	-.0022	.0057	16.97
19.03	.0000	.0008	-.0037	-.0049	-.0033	.0048	19.03
21.18	-.0002	.0016	-.0037	.0021	-.0041	.0031	21.18
Speed brakes, upper				Speed brakes, lower			
-10.27	1.3451	-.2323	.6521	1.0343	-.1056	.5476	-10.27
-8.11	1.3176	-.2324	.6471	1.0345	-.0910	.5381	-8.11
-6.05	1.3095	-.2371	.6588	1.0517	-.0812	.5419	-6.05
-3.95	1.3096	-.2374	.6681	1.0430	-.0856	.5229	-3.95
-1.85	1.3019	-.2329	.6738	1.0578	-.0901	.5249	-1.85
.24	1.2876	-.2330	.6796	1.1050	-.0944	.5375	.24
2.33	1.2797	-.2330	.6851	1.1519	-.1033	.5500	2.33
4.41	1.2143	-.2099	.6572	1.2132	-.1075	.5706	4.41
6.50	1.2450	-.2332	.6861	1.2706	-.1118	.5934	6.50
8.56	1.2170	-.2332	.6793	1.3170	-.1209	.6105	8.56
10.67	1.1397	-.2195	.6446	1.3686	-.1253	.6307	10.67
12.75	1.0233	-.1913	.5755	1.4174	-.1248	.6495	12.75
14.85	.8792	-.1725	.4808	1.4684	-.1292	.6694	14.85
16.97	.6414	-.1578	.3139	1.5181	-.1383	.6888	16.97
19.03	.4543	-.1716	.2111	1.5627	-.1380	.7042	19.03
21.18	.3182	-.1530	.1470	1.6132	-.1423	.7223	21.18

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93

TABLE IX. - SURFACE LOADING CHARACTERISTICS AT VARIOUS EQUAL DEFLECTIONS
OF THE HORIZONTAL TAIL PANELS WITH THE VERTICAL TAILS

UNDEFLECTED FOR CONFIGURATION, WFHVv; $\beta = 0^\circ$ - Continued(h) $M = 2.98$, $R = 1.87 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = -20^\circ$, $\delta_S = 35^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg	
	Wing, left				Wing, right			
-10.16	-0.2615	.0101	.1196	-0.2874	.0145	.1033	-10.16	
-8.02	-0.2102	.0018	.0949	-0.2046	.0072	.0825	-8.02	
-6.00	-0.1753	-.0002	.0666	-0.1217	.0042	.0598	-6.00	
-3.89	-0.0882	-.0086	.0435	-0.0185	-.0058	.0379	-3.89	
-1.86	-0.0195	-.0107	.0187	.0862	.0137	.0199	-1.86	
.21	.0586	-.0086	.0004	.1729	.0191	-.0036	.21	
2.26	.1059	-.0088	.0223	.2154	-.0233	.0179	2.26	
4.34	.2413	-.0111	.0387	.3125	-.0308	.0367	4.34	
6.39	.2788	-.0221	.0658	.3434	-.0346	.0654	6.39	
8.44	.3319	-.0269	.0913	.3931	-.0388	.0933	8.44	
10.51	.3831	-.0290	.1164	.4398	-.0428	.1196	10.51	
12.57	.4019	-.0356	.1447	.4541	-.0485	.1491	12.57	
14.64	.4547	-.0402	.1699	.4491	-.0529	.1778	14.64	
16.71	.4994	-.0535	.2018	.4842	-.0613	.2093	16.71	
18.77	.5913	-.0587	.2265	.5193	-.0672	.2412	18.77	
20.89	.6187	-.0655	.2616	.5750	-.0760	.2739	20.89	
	Horizontal tail, left				Horizontal tail, right			
-10.16	-0.6722	.1071	-.2336	-0.9764	-.6956	-.1772	-10.16	
-8.02	-0.6736	.1169	-.2320	-0.9633	-.6954	-.1755	-8.02	
-6.00	-0.6495	.1103	-.2249	-0.9485	-.6941	-.1677	-6.00	
-3.89	-0.6289	.0837	-.2123	-0.8934	-.6944	-.1602	-3.89	
-1.86	-0.5976	.0697	-.2068	-0.8509	-.6944	-.1536	-1.86	
.21	.5589	.0652	-.1988	-.8187	-.6958	-.1443	.21	
2.26	.4890	.0559	-.1759	-.7553	-.6926	-.1227	2.26	
4.34	.4150	.0406	-.1443	-.6826	-.6931	-.0910	4.34	
6.39	.3509	.0206	-.1075	-.6080	-.6914	-.0564	6.39	
8.44	.2960	.0033	-.0785	-.5784	-.6937	-.0278	8.44	
10.51	.2603	.0139	-.0558	-.5152	-.6909	-.0085	10.51	
12.57	.2325	.0327	-.0373	-.4900	-.6922	-.0087	12.57	
14.64	.2214	.0388	-.0331	-.4768	-.6920	.0150	14.64	
16.71	.2088	.0435	-.0274	-.4772	-.6917	.0201	16.71	
18.77	.1894	.0466	-.0217	-.4565	-.6916	.0254	18.77	
20.89	.1639	.0544	-.0139	-.4367	-.6920	.0331	20.89	
	Vertical tail, upper				Vertical tail, lower			
-10.16	-.0096	.0010	-.0069	.0196	.0006	-.0046	-10.16	
-8.02	-.0137	.0005	-.0041	.0196	.0006	-.0046	-8.02	
-6.00	-.0123	.0000	-.0037	.0192	.0011	-.0046	-6.00	
-3.89	-.0110	-.0005	-.0030	.0147	.0004	-.0006	-3.89	
-1.86	-.0076	-.0005	-.0037	.0082	.0004	-.0026	-1.86	
.21	-.0096	-.0005	-.0023	.0082	.0004	-.0026	.21	
2.26	-.0096	-.0005	-.0023	.0082	.0004	-.0026	2.26	
4.34	-.0082	-.0010	-.0018	.0082	.0004	-.0026	4.34	
6.39	-.0082	-.0010	-.0018	.0107	.0004	-.0003	6.39	
8.44	-.0104	-.0010	-.0005	.0171	.0006	-.0026	8.44	
10.51	-.0103	-.0010	-.0005	.0131	.0004	-.0017	10.51	
12.57	-.0124	-.0005	-.0007	.0171	.0006	-.0026	12.57	
14.64	-.0104	-.0005	-.0005	.0213	-.0002	-.0034	14.64	
16.71	-.0104	-.0000	-.0005	.0238	-.0002	-.0054	16.71	
18.77	-.0086	.0010	-.0018	.0241	-.0009	-.0057	18.77	
20.89	-.0073	.0005	-.0011	.0241	-.0009	-.0057	20.89	
	Speed brakes, upper				Speed brakes, lower			
-10.16	1.3166	-.0829	.6586	.8729	-.1044	.4846	-10.16	
-8.02	1.2670	-.0776	.6332	.8835	-.0987	.4820	-8.02	
-6.00	1.2206	-.0775	.6181	.8727	-.0931	.4845	-6.00	
-3.89	1.1730	-.0777	.6018	.8900	-.0817	.4886	-3.89	
-1.86	1.1346	-.0831	.5904	.9699	-.0861	.5067	-1.86	
.21	1.1009	-.0834	.5815	1.0413	-.0967	.5242	.21	
2.26	1.0384	-.0723	.5553	1.1199	-.1017	.5587	2.26	
4.34	.9590	-.0615	.5226	1.2065	-.1125	.5942	4.34	
6.39	.9511	-.0671	.5389	1.2810	-.1232	.6297	6.39	
8.44	.9412	-.0454	.5435	1.3599	-.1342	.6655	8.44	
10.51	.8797	-.0288	.5068	1.4342	-.1392	.6990	10.51	
12.57	.7242	-.0065	.4071	1.5184	-.1444	.7408	12.57	
14.64	.5343	.0051	.2725	1.5948	-.1552	.7736	14.64	
16.71	.3566	-.0059	.1974	1.6876	-.1658	.8136	16.71	
18.77	.2951	.0215	.1635	1.7723	-.1766	.8520	18.77	
20.89	.2300	.0106	.1346	1.8709	-.1816	.8938	20.89	

TABLE IX. - SURFACE LOADING CHARACTERISTICS AT VARIOUS EQUAL DEFLECTIONS

OF THE HORIZONTAL TAIL PANELS WITH THE VERTICAL TAILS

UNDEFLECTED FOR CONFIGURATION, WFHVV; $\beta = 0^\circ$ - Concluded(1) $M = 4.65$, $R = 2.28 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = -20^\circ$, $\delta_s = 35^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-9.40	1.3786	-0.1803	0.7342	0.4817	-0.0122	0.2175	-9.40
-7.37	1.2710	-0.1805	0.6873	0.5888	-0.0358	0.3055	-7.37
-5.29	1.1685	-0.1729	0.6217	0.7989	-0.0899	0.4530	-5.29
-3.30	1.1015	-0.1504	0.5907	0.8430	-0.1057	0.4959	-3.30
-1.27	1.0199	-0.1428	0.5470	0.9700	-0.0889	0.5353	-1.27
.77	.9280	-0.1278	0.4887	1.0749	-0.0878	0.5674	.77
2.79	.7582	-0.1051	0.3994	1.1837	-0.1101	0.6179	2.79
4.84	.6655	-0.1278	0.3781	1.3208	-0.1250	0.6926	4.84
6.88	.5987	-0.1056	0.3571	1.4587	-0.1552	0.7653	6.88
8.90	.3995	-0.0824	0.2099	1.5786	-0.1623	0.8284	8.90
10.97	.2107	-0.0744	0.0873	1.7335	-0.1847	0.9074	10.97
13.00	.1561	-0.0972	0.0846	1.9228	-0.2069	1.0046	13.00
15.05	.0960	-0.0972	0.0608	2.0608	-0.2215	1.0695	15.05
17.07	.0686	-0.0897	0.0469	2.2836	-0.2359	1.1868	17.07
19.16	.0575	-0.0822	0.0393	2.4612	-0.2581	1.2787	19.16
21.20	.0462	-0.0673	0.0291	2.6341	-0.2801	1.3570	21.20
Horizontal tail, left				Horizontal tail, right			
-9.40	-0.2387	.0142	-0.0662	-0.2030	.0229	-0.0609	-9.40
-7.37	-0.2157	.0143	-0.0473	-0.2343	.0239	-0.0410	-7.37
-5.29	-0.1249	.0116	-0.0364	-0.1415	.0169	-0.0297	-5.29
-3.30	-0.1256	.0116	-0.0161	-0.0972	.0105	-0.0158	-3.30
-1.27	-0.1041	.0087	0.0007	-0.0102	.0029	-0.0085	-1.27
.77	.0283	.0059	.0007	-0.0155	-0.0024	.0099	.77
2.79	.0689	-.0030	0.145	-0.0193	-0.0045	0.284	2.79
4.84	.1545	.0028	0.213	-0.0233	-0.0035	.0493	4.84
6.88	.1797	-.0031	0.402	.0179	-0.0004	.0657	6.88
8.90	.2032	-.0031	0.0591	.0139	-0.0006	.0863	8.90
10.97	.2782	-.0122	0.754	.0838	-0.0029	.1039	10.97
13.00	.2862	-.0179	0.1013	.1109	-0.0115	.1248	13.00
15.05	.2940	-.0209	0.1276	.0917	-0.0161	.1531	15.05
17.07	.3807	-.0243	0.1547	.1735	-0.0257	.1786	17.07
19.16	.4447	-.0334	0.1822	.1833	-0.0304	.2101	19.16
21.20	.5301	-.0394	0.2069	.2637	-0.0368	.2361	21.20
Vertical tail, upper				Vertical tail, lower			
-9.40	-0.4517	.1191	-0.2711	-0.5512	.1215	-0.2744	-9.40
-7.37	-0.3910	.1112	-0.2506	-0.5073	.1197	-0.2558	-7.37
-5.29	-0.3446	.0970	-0.2211	-0.4732	.1049	-0.2306	-5.29
-3.30	-0.2937	.0722	-0.1970	-0.4674	.0728	-0.2130	-3.30
-1.27	-0.2704	.0640	-0.1876	-0.4698	.0556	-0.2079	-1.27
.77	-0.2331	.0498	-0.1638	-0.4299	.0473	-0.1831	.77
2.79	-0.1816	.0417	-0.1430	-0.3978	.0388	-0.1636	2.79
4.84	-0.1555	.0254	-0.1176	-0.3676	.0176	-0.1377	4.84
6.88	-0.1395	.0069	-0.0995	-0.3408	-0.0037	-0.1192	6.88
8.90	-0.1351	-.0014	0.0959	-0.3535	-0.0102	-0.1187	8.90
10.97	-0.3655	-.0103	0.0746	-0.1651	-0.0037	-0.0772	10.97
13.00	-0.3661	-.0104	0.0805	-0.1938	-0.0037	-0.0803	13.00
15.05	-0.3892	-.0126	0.0822	-0.2044	-0.0059	-0.0825	15.05
17.07	-0.4008	-.0170	0.0841	-0.2054	-0.0080	-0.0844	17.07
19.16	-0.3998	-.0191	0.0842	-0.1884	-0.0120	-0.0850	19.16
21.20	-0.3846	-.0233	0.0823	-0.1814	-0.0162	-0.0840	21.20
Speed brakes, upper				Speed brakes, lower			
-9.40	-0.0020	.0014	-0.0008	0.0322	-0.0003	-0.0077	-9.40
-7.37	-0.0020	.0014	-0.0008	0.0322	-0.0003	-0.0077	-7.37
-5.29	-0.0081	.0007	0.0009	0.0231	.0007	-0.0035	-5.29
-3.30	-0.0019	.0007	-0.0008	0.0148	-0.0003	.0005	-3.30
-1.27	.0048	.0007	-0.0017	0.0231	.0007	-0.0035	-1.27
.77	.0048	.0007	-0.0017	0.0235	-0.0003	-0.0036	.77
2.79	.0049	.0000	-0.0017	0.0255	-0.0003	-0.0021	2.79
4.84	.0000	.0000	0.0000	0.0168	-0.0004	.0021	4.84
6.88	.0000	.0000	0.0000	0.0172	-0.0013	.0020	6.88
8.90	.0129	.0000	-0.0027	0.0135	-0.0004	.0049	8.90
10.97	.0048	.0000	-0.0018	0.0222	-0.0004	.0009	10.97
13.00	.0079	.0000	-0.0009	0.0315	-0.0013	-0.0034	13.00
15.05	.0079	.0000	-0.0009	0.0294	-0.0013	-0.0048	15.05
17.07	.0048	.0007	-0.0018	0.0275	-0.0011	-0.0063	17.07
19.16	.0079	.0007	-0.0009	0.0245	-0.0020	-0.0037	19.16
21.20	.0079	.0000	-0.0009	0.0248	-0.0030	-0.0037	21.20

REF ID: A6512
REF ID: A6512

95

TABLE X.- SURFACE LOADING CHARACTERISTICS AT VARIOUS EQUAL DEFLECTIONS
OF THE HORIZONTAL TAIL PANELS WITH THE VERTICAL TAILS DEFLECTED -7.5°

FOR CONFIGURATION, WFFHVV; $\beta = 0^\circ$
(a) $M = 2.29$, $R = 1.87 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_S = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg	
	Wing, left				Wing, right			
-10.27	-0.3494	.0420	-.1619	-0.3827	.0390	-.1463	-10.27	
-8.16	-0.3526	.0348	-.1276	-0.3179	.0332	-.1188	-8.16	
-6.11	-0.3245	.0279	-.0929	-0.2469	.0277	-.0853	-6.11	
-3.97	-0.2192	.0211	-.0578	-0.0828	.0163	-.0566	-3.97	
-1.92	-0.1157	.0161	-.0259	-0.0728	.0119	-.0191	-1.92	
.18	-0.0140	.0145	.0064	0.0417	.0094	.0140	.18	
2.25	.0199	.0109	.0451	.0199	.0097	.0530	2.25	
4.37	.0184	.0016	.0710	.1354	.0054	.0861	4.37	
6.44	.0284	-.0062	.1017	.1897	-.0056	.1184	6.44	
8.51	.0339	-.0119	.1352	.2126	-.0119	.1527	8.51	
10.61	.0364	-.0209	.1695	.3245	-.0201	.1826	10.61	
12.70	.0418	-.0286	.1982	.3592	-.0269	.2133	12.70	
14.80	.0449	-.0362	.2301	.3943	-.0358	.2440	14.80	
16.91	.0473	-.0456	.2644	.4581	-.0452	.2735	16.91	
19.01	.0513	-.0533	.2931	.5499	-.0571	.2987	19.01	
21.19	.0677	-.0653	.3234	.6408	-.0688	.3242	21.19	
	Horizontal tail, left				Horizontal tail, right			
-10.27	-0.2357	.0428	-.0956	-0.1643	.0435	-.1013	-10.27	
-8.16	-0.1681	.0298	-.0694	-0.1034	.0310	-.0744	-8.16	
-6.11	-0.1275	.0247	-.0490	-0.0517	.0225	-.0515	-6.11	
-3.97	-0.0960	.0195	-.0369	-0.0279	.0148	-.0395	-3.97	
-1.92	-0.0555	.0103	-.0174	-0.0110	.0074	-.0196	-1.92	
.18	-0.0212	-.0015	.0077	0.0391	-.0038	.0034	.18	
2.25	.0255	-.0118	.0334	.1020	-.0137	.0265	2.25	
4.37	.0677	-.0291	.0649	.1671	-.0288	.0566	4.37	
6.44	.1192	-.0447	.0983	.2359	-.0461	.0901	6.44	
8.51	.1748	-.0619	.1304	.3162	-.0664	.1196	8.51	
10.61	.2259	-.0776	.1636	.4010	-.0863	.1541	10.61	
12.70	.2982	-.0905	.1925	.4742	-.1064	.1869	12.70	
14.80	.3445	-.1036	.2205	.5623	-.1288	.2238	14.80	
16.91	.4150	-.1193	.2515	.6503	-.1526	.2647	16.91	
19.01	.4734	-.1311	.2769	.7076	-.1689	.3000	19.01	
21.19	.5030	-.1403	.2999	.7645	-.1774	.3274	21.19	
	Vertical tail, upper				Vertical tail, lower			
-10.27	-0.2142	.0217	-.1071	-0.1280	.0129	-.0603	-10.27	
-8.16	-0.2105	.0217	-.1016	-0.1303	.0142	-.0614	-8.16	
-6.11	-0.1999	.0222	-.0986	-0.1345	.0142	-.0646	-6.11	
-3.97	-0.1938	.0222	-.0940	-0.1374	.0144	-.0666	-3.97	
-1.92	-0.1846	.0227	-.0918	-0.1483	.0146	-.0680	-1.92	
.18	-0.1730	.0232	-.0881	-0.1584	.0137	-.0694	.18	
2.25	-0.1677	.0242	-.0858	-0.1549	.0131	-.0734	2.25	
4.37	-0.1588	.0250	-.0835	-0.1616	.0125	-.0751	4.37	
6.44	-0.1496	.0258	-.0810	-0.1670	.0122	-.0794	6.44	
8.51	-0.1444	.0273	-.0784	-0.1763	.0118	-.0796	8.51	
10.61	-0.1440	.0303	-.0762	-0.1764	.0118	-.0831	10.61	
12.70	-0.1417	.0327	-.0748	-0.1890	.0107	-.0831	12.70	
14.80	-0.1520	.0409	-.0771	-0.1808	.0090	-.0876	14.80	
16.91	-0.1601	.0497	-.0840	-0.1895	.0079	-.0879	16.91	
19.01	-0.1566	.0510	-.0879	-0.1885	.0046	-.0916	19.01	
21.19	-0.1198	.0391	-.0794	-0.1826	.0024	-.0947	21.19	

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 TABLE X.- SURFACE LOADING CHARACTERISTICS AT VARIOUS EQUAL DEFLECTIONS
 OF THE HORIZONTAL TAIL PANELS WITH THE VERTICAL TAILS DEFLECTED -7.5°

FOR CONFIGURATION, WFHVv; $\beta = 0^\circ$ - Continued
 (b) $M = 2.98$, $R = 1.87 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_S = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
	Wing, left			Wing, right			
-10.15	-0.2641	0.0334	-0.1160	-0.3125	0.0324	-0.1021	-10.15
-8.07	-0.2503	0.0292	-0.0905	-0.3779	0.0326	-0.0734	-8.07
-5.98	-0.1797	0.0231	-0.0646	-0.3103	0.0281	-0.0482	-5.98
-3.96	-0.0951	0.0169	-0.0427	-0.1899	0.0225	-0.0275	-3.96
-1.87	-0.0792	0.0191	-0.0140	-0.1785	0.0167	-0.0012	-1.87
.17	.0054	.0107	.0064	.1069	.0141	.0211	.17
2.22	.0688	.0107	.0279	.0523	.0097	.0431	2.22
4.30	.2192	.0040	.0399	.0441	.0044	.0618	4.30
6.35	.2724	.0016	.0666	.0381	.0058	.0925	6.35
8.42	.2708	.0038	.0965	.0136	.0054	.1220	8.42
10.48	.3454	-0.0095	.1220	.1193	.0002	.1491	10.48
12.54	.3660	-0.0161	.1519	.1687	-0.040	.1766	12.54
14.63	.3849	-0.0227	.1802	.1476	-0.0090	.2077	14.63
16.70	.4304	-0.0314	.2141	.2030	-0.0197	.2388	16.70
18.77	.4713	-0.0382	.2448	.2736	-0.0286	.2672	18.77
20.86	.5702	-0.0476	.2739	.3995	-0.0410	.2947	20.86
	Horizontal tail, left			Horizontal tail, right			
-10.15	-0.2321	0.0415	-0.0903	-0.1208	0.0382	-0.0951	-10.15
-8.07	-0.2066	0.0369	-0.0739	-0.0693	0.0324	-0.0811	-8.07
-5.98	-0.1379	0.0308	-0.0545	-0.0118	0.0265	-0.0602	-5.98
-3.96	-0.0978	0.0232	-0.0388	.0240	.0192	-0.0429	-3.96
-1.87	-0.0453	0.0140	-0.0208	.0509	.0039	-0.0242	-1.87
.17	-0.0036	.0031	.0018	.0844	-0.0015	.0014	.17
2.22	.0343	-0.0092	.0278	.1184	-0.0102	.0225	2.22
4.30	.0737	-0.0217	.0533	.1721	-0.0222	.0469	4.30
6.35	.1192	-0.0341	.0821	.2477	-0.0322	.0728	6.35
8.42	.1631	-0.0482	.1061	.3024	-0.0426	.0955	8.42
10.48	.1992	-0.0591	.1267	.3423	-0.0544	.1163	10.48
12.54	.2429	-0.0698	.1476	.3962	-0.0663	.1359	12.54
14.63	.3026	-0.0823	.1690	.4495	-0.0799	.1575	14.63
16.70	.3531	-0.0979	.1959	.5154	-0.0946	.1823	16.70
18.77	.4030	-0.1119	.2234	.5671	-0.1095	.2079	18.77
20.86	.4549	-0.1259	.2514	.6174	-0.1260	.2380	20.86
	Vertical tail, upper			Vertical tail, lower			
-10.15	-0.2148	0.0386	-0.1126	-0.1224	0.0159	-0.0458	-10.15
-8.07	-0.2013	0.0376	-0.1064	-0.1276	0.0160	-0.0495	-8.07
-5.98	-0.1870	0.0361	-0.1023	-0.1406	0.0170	-0.0509	-5.98
-3.96	-0.1837	0.0342	-0.0963	-0.1465	0.0184	-0.0546	-3.96
-1.87	-0.1762	0.0329	-0.0908	-0.1579	0.0192	-0.0549	-1.87
.17	-0.1696	0.0314	-0.0879	-0.1589	0.0199	-0.0592	.17
2.22	-0.1626	0.0298	-0.0849	-0.1673	0.0214	-0.0612	2.22
4.30	-0.1560	0.0283	-0.0819	-0.1731	0.0223	-0.0649	4.30
6.35	-0.1465	0.0273	-0.0798	-0.1771	0.0225	-0.0717	6.35
8.42	-0.1282	0.0263	-0.0736	-0.1824	0.0227	-0.0754	8.42
10.48	-0.1195	0.0249	-0.0674	-0.1909	0.0229	-0.0816	10.48
12.54	-0.1109	0.0244	-0.0612	-0.1965	0.0236	-0.0853	12.54
14.63	-0.1055	0.0245	-0.0567	-0.2053	0.0238	-0.0916	14.63
16.70	-0.1031	0.0286	-0.0551	-0.2142	0.0242	-0.0981	16.70
18.77	-0.0879	0.0267	-0.0505	-0.2301	0.0236	-0.1021	18.77
20.86	-0.0706	0.0201	-0.0406	-0.2450	0.0232	-0.1092	20.86

REF ID: A6572
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TABLE X.- SURFACE LOADING CHARACTERISTICS AT VARIOUS EQUAL DEFLECTIONS
OF THE HORIZONTAL TAIL PANELS WITH THE VERTICAL TAILS DEFLECTED -7.5°

FOR CONFIGURATION, WFFHV; $\beta = 0^\circ$ - Continued
(c) $M = 4.65$, $R = 2.28 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_S = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
	Wing, left			Wing, right			
-9.37	-3006	.0111	-.0562	.0929	.0072	-.0774	-9.37
-7.32	-2531	.0084	-.0383	-.0355	.0137	-.0530	-7.32
-5.37	-2106	.0056	-.0251	.0068	.0074	-.0391	-5.37
-3.31	-2082	.0026	-.0028	.0951	.0000	-.0295	-3.31
-1.25	-2092	-.0002	.0159	.1753	-.0072	-.0207	-1.25
.76	-1173	.0000	.0199	.1324	-.0115	.0004	.76
2.77	-.0634	-.0030	.0299	.1496	-.0141	.0156	2.77
4.85	.0652	-.0030	.0323	.1675	-.0080	.0355	4.85
6.89	.0678	-.0058	.0546	.1879	-.0074	.0546	6.89
8.90	.0931	-.0088	.0734	.1839	-.0064	.0754	8.90
10.96	.1667	-.0147	.0897	.2319	-.0095	.0961	10.96
12.98	.1743	-.0177	.1160	.2347	-.0145	.1208	12.98
15.04	.2290	-.0237	.1376	.2643	-.0201	.1467	15.04
17.08	.2698	-.0296	.1687	.2736	-.0243	.1782	17.08
19.15	.3572	-.0358	.1954	.3305	-.0271	.2073	19.15
21.22	.4914	-.0424	.2173	.4874	-.0422	.2317	21.22
	Horizontal tail, left			Horizontal tail, right			
-9.37	-1517	.0251	-.0589	-.1629	.0220	-.0518	-9.37
-7.32	-1487	.0207	-.0479	-.1561	.0200	-.0403	-7.32
-5.37	-1080	.0145	-.0380	-.1126	.0139	-.0323	-5.37
-3.31	-0695	.0082	-.0245	-.0990	.0079	-.0164	-3.31
-1.25	-0293	.0040	-.0091	-.0451	.0041	-.0044	-1.25
.76	.0092	-.0021	.0043	-.0120	-.0019	.0087	.76
2.77	.0409	-.0041	.0207	.0140	-.0037	.0233	2.77
4.85	.0611	-.0105	.0352	.0469	-.0097	.0380	4.85
6.89	.0864	-.0167	.0473	.0707	-.0157	.0493	6.89
8.90	.0884	-.0231	.0622	.1040	-.0217	.0624	8.90
10.96	.1257	-.0380	.0790	.1453	-.0298	.0780	10.96
12.98	.1521	-.0507	.1003	.1850	-.0400	.0973	12.98
15.04	.1631	-.0636	.1243	.2339	-.0499	.1188	15.04
17.08	.2188	-.0803	.1552	.3088	-.0638	.1461	17.08
19.15	.2955	-.0911	.1823	.3667	-.0738	.1716	19.15
21.22	.3190	-.1036	.2080	.4431	-.0859	.1967	21.22
	Vertical tail, upper			Vertical tail, lower			
-9.37	-1876	.0425	-.1057	-.0330	.0260	-.0614	-9.37
-7.32	-1618	.0392	-.0940	-.0406	.0262	-.0617	-7.32
-5.37	-1433	.0366	-.0888	-.0556	.0264	-.0731	-5.37
-3.31	-1290	.0345	-.0853	-.0731	.0266	-.0703	-3.31
-1.25	-1182	.0340	-.0803	-.0755	.0266	-.0720	-1.25
.76	-1185	.0334	-.0743	-.0839	.0304	-.0714	.76
2.77	-1299	.0342	-.0674	-.0948	.0304	-.0688	2.77
4.85	-1299	.0342	-.0674	-.1114	.0308	-.0757	4.85
6.89	-1154	.0327	-.0700	-.1215	.0312	-.0831	6.89
8.90	-1098	.0293	-.0645	-.1296	.0315	-.0836	8.90
10.96	-1011	.0260	-.0546	-.1476	.0319	-.0916	10.96
12.98	-8865	.0193	-.0452	-.1742	.0323	-.1004	12.98
15.04	-0712	.0139	-.0326	-.1934	.0338	-.1141	15.04
17.08	-0493	.0093	-.0257	-.2072	.0349	-.1183	17.08
19.15	-0246	.0067	-.0140	-.2100	.0360	-.1200	19.15
21.22	-0081	.0039	-.0126	-.2097	.0387	-.1240	21.22

TABLE X. - SURFACE LOADING CHARACTERISTICS AT VARIOUS EQUAL DEFLECTIONS
OF THE HORIZONTAL TAIL PANELS WITH THE VERTICAL TAILS DEFLECTED -7.5°

FOR CONFIGURATION, WFHVv; $\beta = 0^\circ$ - Continued

(d) $M = 2.29$, $R = 1.87 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = -20^\circ$, $\delta_S = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left							
-10.22	-•3604	•0384	-•1591	-•3640	•0368	-•1447	-10.22
-8.14	-•3488	•0314	-•1252	-•3004	•0310	-•1184	-8.14
-5.99	-•3337	•0243	-•0885	-•2274	•0235	-•0837	-5.99
-3.98	-•2038	•0175	-•0590	-•0989	•0145	-•0574	-3.98
-1.86	-•1133	•0125	-•0247	-•0096	•0088	-•0207	-1.86
•23	•0062	•0090	•0068	•0582	•0090	•0144	•23
2.32	•0393	•0054	•0467	•0848	•0064	•0530	2.32
4.42	•1867	-•0022	•0722	•1673	•0004	•0845	4.42
6.48	•3077	-•0099	•1021	•2210	-•0088	•1172	6.48
8.58	•3528	-•0173	•1360	•2449	-•0145	•1527	8.58
10.66	•3817	-•0229	•1703	•3273	-•0221	•1842	10.66
12.75	•4087	-•0322	•2022	•3931	-•0302	•2165	12.75
14.88	•4806	-•0420	•2301	•4270	-•0404	•2444	14.88
16.98	•5128	-•0515	•2660	•4938	-•0515	•2751	16.98
19.09	•5516	-•0593	•2943	•5397	-•0607	•3015	19.09
21.23	•6135	-•0690	•3266	•6599	-•0732	•3254	21.23
Horizontal tail, left							
-10.22	-•7447	•1694	-•2889	-•5990	•1745	-•2949	-10.22
-8.14	-•7060	•1591	-•2742	-•5317	•1608	-•2813	-8.14
-5.99	-•6786	•1313	-•2595	-•5132	•1337	-•2685	-5.99
-3.98	-•6511	•1181	-•2541	-•4876	•1184	-•2613	-3.98
-1.86	-•6303	•1126	-•2520	-•4541	•1144	-•2582	-1.86
•23	-•5944	•1063	-•2404	-•3996	•1096	-•2471	•23
2.32	-•5285	•0960	-•2180	-•3497	•0984	-•2245	2.32
4.42	-•4485	•0804	-•1857	-•2916	•0821	-•1924	4.42
6.48	-•3607	•0622	-•1505	-•2228	•0645	-•1553	6.48
8.58	-•2976	•0438	-•1117	-•1617	•0445	-•1185	8.58
10.66	-•2102	•0244	-•0699	-•1275	•0205	-•0768	10.66
12.75	-•1433	•0059	-•0417	-•0655	•0004	-•0454	12.75
14.88	-•1178	-•0084	-•0187	-•0166	-•0133	-•0235	14.88
16.98	-•0603	-•0374	•0151	•0509	-•0426	•0160	16.98
19.09	-•0309	-•0482	•0316	•0800	-•0590	•0396	19.09
21.23	-•0140	-•0560	•0482	•1253	-•0688	•0595	21.23
Vertical tail, upper							
Vertical tail, lower							
-10.22	-•2123	•0213	-•1044	-•1084	•0122	-•0626	-10.22
-8.14	-•2100	•0214	-•0996	-•1154	•0135	-•0606	-8.14
-5.99	-•2016	•0219	-•0957	-•1198	•0135	-•0637	-5.99
-3.98	-•1926	•0219	-•0936	-•1290	•0137	-•0640	-3.98
-1.86	-•1820	•0224	-•0906	-•1320	•0137	-•0660	-1.86
•23	-•1753	•0232	-•0874	-•1322	•0133	-•0697	•23
2.32	-•1643	•0242	-•0860	-•1429	•0129	-•0711	2.32
4.42	-•1573	•0247	-•0828	-•1493	•0124	-•0728	4.42
6.48	-•1484	•0255	-•0805	-•1542	•0113	-•0737	6.48
8.58	-•1467	•0268	-•0778	-•1612	•0114	-•0754	8.58
10.66	-•1428	•0294	-•0757	-•1673	•0105	-•0771	10.66
12.75	-•1420	•0329	-•0750	-•1740	•0100	-•0788	12.75
14.88	-•1542	•0427	-•0780	-•1764	•0090	-•0811	14.88
16.98	-•1629	•0504	-•0833	-•1735	•0066	-•0862	16.98
19.09	-•1607	•0520	-•0879	-•1846	•0057	-•0851	19.09
21.23	-•1251	•0396	-•0801	-•1805	•0024	-•0868	21.23

L-350

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TABLE X. - SURFACE LOADING CHARACTERISTICS AT VARIOUS EQUAL DEFLECTIONS
OF THE HORIZONTAL TAIL PANELS WITH THE VERTICAL TAILS DEFLECTED -7.5°

FOR CONFIGURATION, WFFHV_v; $\beta = 0^\circ$ - Continued(e) $M = 2.98$, $R = 1.87 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = -20^\circ$, $\delta_s = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-10.12 -8.03 -5.97 -3.90 -1.86 .21 2.26 4.34 6.39 8.44 10.52 12.58 14.67 16.74 18.84 20.94	-1871 -1536 -1001 -0309 -0213 .1350 .1689 .3031 .3554 .3919 .4106 .4475 .5014 .5471 .6049 .6508	0316 0255 0191 0149 0107 0086 0084 0038 -0008 -0054 -0119 -0185 -0275 -0342 -0414 -0525	-1296 -1037 -0770 -0526 -0255 -0092 -0159 -0303 -0554 -0833 -1116 -1392 -1643 -1982 -2261 -2592	-4888 -4027 -3548 -2497 -1835 -1330 -1111 -0315 -0138 -0265 -0570 -0905 -1911 -2321 -2856 -3092	0448 0398 0354 0279 0211 0167 0129 0080 0060 0048 0010 0074 0147 -0253 -0314 -0438	-0997 -0754 -0510 -0275 -0040 -0175 -0423 -0622 -0869 -1164 -1435 -1719 -1938 -2289 -2596 -2851	-10.12 -8.03 -5.97 -3.90 -1.86 .21 2.26 4.34 6.39 8.44 10.52 12.58 14.67 16.74 18.84 20.94
Horizontal tail, left				Horizontal tail, right			
-10.12 -8.03 -5.97 -3.90 -1.86 .21 2.26 4.34 6.39 8.44 10.52 12.58 14.67 16.74 18.84 20.94	-6744 -6349 -5984 -5615 -5475 -5076 -4443 -3842 -3100 -2469 -2245 -1868 -1537 -1493 -1164 -0984	1432 1420 1343 1044 0887 0843 0752 0611 0426 0257 0068 -0120 -0195 -0244 -0273 -0351	-2540 -2417 -2285 -2148 -2073 -1989 -1755 -1430 -1081 -0785 -0552 -0359 -0317 -0266 -0211 -0135	-5365 -4673 -4681 -4152 -3683 -3591 -2964 -2315 -1910 -1293 -1206 -0850 -0699 -0591 -0627 -0603	1470 1473 1369 1110 0957 0897 0811 0663 0470 0261 0096 -0100 -0192 -0236 -0281 -0341	-2619 -2520 -2373 -2231 -2148 -2043 -1816 -1500 -1138 -0843 -0622 -0434 -0365 -0316 -0243 -0156	-10.12 -8.03 -5.97 -3.90 -1.86 .21 2.26 4.34 6.39 8.44 10.52 12.58 14.67 16.74 18.84 20.94
Vertical tail, upper				Vertical tail, lower			
-10.12 -8.03 -5.97 -3.90 -1.86 .21 2.26 4.34 6.39 8.44 10.52 12.58 14.67 16.74 18.84 20.94	-2179 -2047 -1885 -1811 -1750 -1666 -1598 -1531 -1462 -1255 -1193 -1123 -1069 -1053 -0852 -0697	0391 0371 0356 0337 0322 0307 0293 0278 0262 0252 0249 0239 0239 0276 0257 0206	-1140 -1080 -1030 -0975 -0927 -0888 -0858 -0828 -0798 -0748 -0674 -0619 -0571 -0539 -0514 -0424	-1179 -1261 -1387 -1486 -1520 -1600 -1654 -1736 -1841 -1887 -1957 -2046 -2086 -2175 -2355 -2471	0199 0199 0201 0205 0205 0207 0214 0216 0231 0240 0242 0251 0253 0255 0256 0258	-0447 -0467 -0484 -0515 -0540 -0560 -0597 -0617 -0649 -0717 -0768 -0831 -0896 -0961 -1016 -1058	-10.12 -8.03 -5.97 -3.90 -1.86 .21 2.26 4.34 6.39 8.44 10.52 12.58 14.67 16.74 18.84 20.94

TABLE X. - SURFACE LOADING CHARACTERISTICS AT VARIOUS EQUAL DEFLECTIONS
OF THE HORIZONTAL TAIL PANELS WITH THE VERTICAL TAILS DEFLECTED -7.5°

FOR CONFIGURATION, WFFHV_v; $\beta = 0^\circ$ - Continued

(f) $M = 4.65$, $R = 2.28 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = -20^\circ$, $\delta_S = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left							
-9.40	-0.2567	.0141	-0.0606	.0169	.0056	-0.0809	-9.40
-7.34	-0.2541	.0111	-0.0383	-0.0588	.0173	-0.0494	-7.34
-5.31	-0.2327	.0084	-0.0215	-0.0164	.0109	-0.0355	-5.31
-3.29	-0.2088	.0056	-0.0028	.0467	.0072	-0.0247	-3.29
-1.26	-0.2100	.0028	.0163	.01235	-0.0030	-0.0156	-1.26
.78	-0.1482	.0028	.0255	.0840	-0.0076	-0.0052	.78
2.82	-0.0642	.0000	.0299	.01262	-0.0109	.0191	2.82
4.85	.0433	.0000	.0359	.01432	-0.0074	.0367	4.85
6.87	.0670	.0030	.0546	.01635	-0.0068	.0562	6.87
8.93	.0923	.0058	.0734	.01839	-0.0064	.0754	8.93
10.96	.1657	.0117	.0897	.02319	-0.0095	.0961	10.96
12.99	.1960	.0177	.1124	.02337	-0.0115	.1208	12.99
15.05	.2527	.0209	.1364	.02631	-0.0169	.1467	15.05
17.13	.2936	.0269	.1675	.02724	-0.0211	.1782	17.13
19.23	.3562	.0328	.1954	.03303	-0.0269	.2073	19.23
21.26	.4912	.0424	.2173	.04860	-0.0392	.2317	21.26
Horizontal tail, left							
-9.40	-0.5291	.1261	-0.2098	-0.4766	.1255	-0.2080	-9.40
-7.34	-0.5116	.1263	-0.1956	-0.4339	.1193	-0.1944	-7.34
-5.31	-0.4359	.1092	-0.1749	-0.3705	.1011	-0.1709	-5.31
-3.29	-0.4186	.0730	-0.1577	-0.3194	.0764	-0.1549	-3.29
-1.26	-0.4233	.0557	-0.1484	-0.2784	.0660	-0.1485	-1.26
.78	-0.3976	.0452	-0.1266	-0.2495	.0539	-0.1292	.78
2.82	-0.3581	.0370	-0.1132	-0.2479	.0436	-0.1135	2.82
4.85	-0.3289	.0177	-0.0912	-0.1938	.0254	-0.0942	4.85
6.87	-0.3243	.0016	-0.0773	-0.1972	.0068	-0.0777	6.87
8.93	-0.3283	.0101	-0.0762	-0.1719	.0005	-0.0778	8.93
10.96	-0.3289	.0102	-0.0815	-0.2020	-0.0017	-0.0792	10.96
12.99	-0.3451	.0101	-0.0851	-0.2124	-0.0038	-0.0831	12.99
15.05	-0.3487	.0144	-0.0878	-0.2228	-0.0060	-0.0853	15.05
17.13	-0.3583	.0167	-0.0883	-0.2433	-0.0081	-0.0860	17.13
19.23	-0.3575	.0189	-0.0880	-0.2359	-0.0122	-0.0870	19.23
21.26	-0.3411	.0252	-0.0861	-0.2291	-0.0164	-0.0844	21.26
Vertical tail, upper							
-9.40	-0.1957	.0425	-0.1064	-0.0381	.0253	-0.0606	-9.40
-7.34	-0.1641	.0392	-0.0952	-0.0369	.0253	-0.0646	-7.34
-5.31	-0.1454	.0366	-0.0897	-0.0553	.0255	-0.0731	-5.31
-3.29	-0.1344	.0345	-0.0846	-0.0685	.0256	-0.0723	-3.29
-1.26	-0.1206	.0347	-0.0812	-0.0752	.0256	-0.0720	-1.26
.78	-0.1174	.0340	-0.0768	-0.0776	.0258	-0.0737	.78
2.82	-0.1252	.0340	-0.0713	-0.0951	.0258	-0.0708	2.82
4.85	-0.1319	.0340	-0.0684	-0.1051	.0262	-0.0782	4.85
6.87	-0.1176	.0334	-0.0709	-0.1109	.0264	-0.0876	6.87
8.93	-0.1118	.0293	-0.0654	-0.1210	.0269	-0.0950	8.93
10.96	-0.1031	.0260	-0.0555	-0.1418	.0282	-0.0942	10.96
12.99	-0.0919	.0193	-0.0447	-0.1689	.0295	-0.1030	12.99
15.05	-0.0765	.0139	-0.0319	-0.1929	.0328	-0.1141	15.05
17.13	-0.0554	.0093	-0.0255	-0.2091	.0341	-0.1203	17.13
19.23	-0.0386	.0067	-0.0177	-0.2100	.0360	-0.1200	19.23
21.26	-0.0137	.0047	-0.0092	-0.2056	.0387	-0.1263	21.26

TABLE X.- SURFACE LOADING CHARACTERISTICS AT VARIOUS EQUAL DEFLECTIONS
OF THE HORIZONTAL TAIL PANELS WITH THE VERTICAL TAILS DEFLECTED -7.5°

FOR CONFIGURATION, WFHVv; $\beta = 0^\circ$ - Continued
(g) $M = 2.29$, $R = 1.87 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_s = 35^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
	Wing, left			Wing, right			
-10.28	-0.2998	.0370	-0.1731	-0.3123	.0410	-0.1559	-10.28
-8.12	-0.3251	.0279	-0.1320	-0.3528	.0350	-0.1200	-8.12
-6.08	-0.3267	.0225	-0.0957	-0.2501	.0277	-0.0881	-6.08
-4.03	-0.1831	.0213	-0.0670	-0.1831	.0201	-0.0590	-4.03
-1.91	-0.1171	.0090	-0.0287	-0.0911	.0123	-0.0211	-1.91
.18	.0170	.0054	.0004	.0405	.0054	.0112	.18
2.29	.0349	.0036	.0427	.0329	.0074	.0498	2.29
4.35	.1412	-.0020	.0746	.0868	.0042	.0841	4.35
6.46	.3051	-.0117	.0997	.1859	-.0056	.1148	6.46
8.51	.3791	-.0193	.1304	.2401	-.0127	.1487	8.51
10.63	.3941	-.0267	.1659	.2790	-.0213	.1826	10.63
12.70	.4350	-.0342	.1966	.3281	-.0285	.2125	12.70
14.79	.4763	-.0456	.2261	.3933	-.0380	.2420	14.79
16.92	.5066	-.0533	.2604	.4589	-.0472	.2727	16.92
18.99	.5612	-.0613	.2883	.5487	-.0573	.2967	18.99
21.12	.6041	-.0708	.3190	.5955	-.0665	.3246	21.12
	Horizontal tail, left			Horizontal tail, right			
-10.28	-0.1671	.0351	-.0965	-0.1651	.0256	-0.0845	-10.28
-8.12	-0.1224	.0289	-.0745	-0.1126	.0183	-0.0633	-8.12
-6.08	-0.0768	.0236	-.0514	-0.0497	.0083	-0.0397	-6.08
-4.03	-0.0529	.0210	-.0396	-0.0303	.0034	-0.0269	-4.03
-1.91	-0.0064	.0093	-.0208	.0014	-.0003	-.0113	-1.91
.18	.0188	-.0013	.0033	.0166	-.0103	.0099	.18
2.29	.0631	.0129	.0303	.0976	-.0201	.0316	2.29
4.35	.0988	-.0302	.0619	.1627	-.0352	.0615	4.35
6.46	.1463	-.0474	.0961	.2623	-.0527	.0917	6.46
8.51	.1846	-.0633	.1259	.3241	-.0729	.1243	8.51
10.63	.2349	-.0765	.1559	.4076	-.0969	.1629	10.63
12.70	.2856	-.0895	.1833	.4798	-.1169	.1907	12.70
14.79	.3363	-.1052	.2099	.5595	-.1461	.2272	14.79
16.92	.4156	-.1318	.2461	.6744	-.1841	.2763	16.92
18.99	.4778	-.1594	.2828	.7772	-.2131	.3198	18.99
21.12	.5433	-.1900	.3237	.8621	-.2408	.3687	21.12
	Vertical tail, upper			Vertical tail, lower			
-10.28	-0.2612	.0417	-.1133	-0.1451	.0441	-0.0765	-10.28
-8.12	-0.2441	.0410	-.1096	-0.1471	.0397	-0.0765	-8.12
-6.08	-0.2399	.0397	-.1039	-0.1432	.0367	-0.0779	-6.08
-4.03	-0.2313	.0389	-.1002	-0.1647	.0347	-0.0782	-4.03
-1.91	-0.2120	.0381	-.0973	-0.1610	.0325	-0.0799	-1.91
.18	-0.2111	.0386	-.0929	-0.1633	.0308	-0.0822	.18
2.29	-0.1983	.0396	-.0908	-0.1658	.0321	-0.0868	2.29
4.35	-0.1929	.0399	-.0883	-0.1810	.0328	-0.0876	4.35
6.46	-0.1820	.0417	-.0869	-0.1827	.0325	-0.0922	6.46
8.51	-0.1817	.0438	-.0849	-0.1901	.0338	-0.0939	8.51
10.63	-0.1794	.0495	-.0851	-0.1992	.0343	-0.0967	10.63
12.70	-0.1767	.0486	-.0821	-0.2037	.0362	-0.0996	12.70
14.79	-0.1822	.0512	-.0826	-0.2123	.0362	-0.1024	14.79
16.92	-0.1879	.0554	-.0828	-0.2189	.0358	-0.1041	16.92
18.99	-0.1803	.0572	-.0849	-0.2359	.0356	-0.1101	18.99
21.12	-0.1461	.0469	-.0814	-0.2368	.0362	-0.1135	21.12
	Speed brakes, upper			Speed brakes, lower			
-10.28	1.2451	-.1533	.6087	1.0453	-.0868	.5698	-10.28
-8.12	1.2118	-.1581	.5981	1.0676	-.0866	.5752	-8.12
-6.08	1.1812	-.1629	.5910	1.0501	-.0914	.5650	-6.08
-4.03	1.1601	-.1628	.5859	1.0672	-.0913	.5750	-4.03
-1.91	1.1394	-.1583	.5809	1.0892	-.0958	.5802	-1.91
.18	1.1230	-.1630	.5773	1.1372	-.1048	.5917	.18
2.29	1.1085	-.1631	.5783	1.1697	-.1139	.5993	2.29
4.35	1.0748	-.1586	.5675	1.2172	-.1231	.6169	4.35
6.46	1.0919	-.1634	.5854	1.2645	-.1227	.6343	6.46
8.51	1.0782	-.1681	.5853	1.3113	-.1271	.6515	8.51
10.63	1.0528	-.1591	.5737	1.3572	-.1317	.6676	10.63
12.70	.9381	-.1353	.5030	1.3998	-.1310	.6843	12.70
14.79	.8096	-.1119	.4269	1.4602	-.1354	.7141	14.79
16.92	.6066	-.1066	.2806	1.5322	-.1398	.7482	16.92
18.99	.4220	-.1344	.1938	1.5862	-.1441	.7687	18.99
21.12	.3238	-.1251	.1448	1.6542	-.1484	.7971	21.12

TABLE X. - SURFACE LOADING CHARACTERISTICS AT VARIOUS EQUAL DEFLECTIONS
OF THE HORIZONTAL TAIL PANELS WITH THE VERTICAL TAILS DEFLECTED -7.5°

FOR CONFIGURATION, WFHVV; $\beta = 0^\circ$ - Continued
(h) $M = 2.98$, $R = 1.87 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_S = 35^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left							
-10.15	-0.2004	0.0143	-0.1188	-0.2702	0.0117	-0.1061	-10.15
-8.06	-0.2300	0.0103	-0.0937	-0.2038	0.0094	-0.0809	-8.06
-5.97	-0.2106	0.0062	-0.0634	-0.1358	0.0024	-0.0558	-5.97
-3.93	-0.1264	0.0020	-0.0415	-0.0193	0.0036	-0.0379	-3.93
-1.89	-0.0401	-0.0064	-0.0195	0.1051	-0.0119	-0.0207	-1.89
.20	.0459	-0.0129	-0.0012	.2084	-0.0197	-0.0052	.20
2.22	.0872	-0.0044	.0235	.2184	-0.0255	.0195	2.22
4.29	.2062	-0.0133	.0403	.3305	-0.0312	.0359	4.29
6.35	.2774	-0.0221	.0646	.3793	-0.0354	.0638	6.35
8.40	.3123	-0.0288	.0905	.4108	-0.0392	.0925	8.40
10.48	.3474	-0.0290	.1184	.4404	-0.0430	.1196	10.48
12.52	.3825	-0.0376	.1443	.4535	-0.0462	.1491	12.52
14.60	.4376	-0.0424	.1711	.4669	-0.0519	.1770	14.60
16.68	.4806	-0.0491	.2034	.4691	-0.0609	.2121	16.68
18.73	.5550	-0.0583	.2289	.5375	-0.0676	.2404	18.73
20.87	.5804	-0.0587	.2640	.5913	-0.0766	.2719	20.87
Horizontal tail, left							
-10.15	-0.2243	0.0146	-0.0882	-0.6006	-0.6938	-0.0190	-10.15
-8.06	-0.2122	0.0132	-0.0743	-0.5802	-0.6935	-0.0130	-8.06
-5.97	-0.1461	0.0087	-0.0558	-0.5176	-0.6916	.0047	-5.97
-3.93	-0.1074	0.0042	-0.0404	-0.4780	-0.6929	.0201	-3.93
-1.89	-0.0561	-0.0065	-0.0231	-0.4447	-0.6925	.0368	-1.89
.20	-0.0240	-0.0159	-0.0010	-0.3970	-0.6915	.0566	.20
2.22	.0062	-0.0253	.0248	.3579	-0.6919	.0785	2.22
4.29	.0413	-0.0410	.0513	.2970	-0.6914	.1031	4.29
6.35	.0836	-0.0550	.0781	.2218	-0.6907	.1268	6.35
8.40	.1006	-0.0658	.1001	.1689	-0.6921	.1484	8.40
10.48	.1305	-0.0752	.1215	.1070	-0.6914	.1647	10.48
12.52	.1643	-0.0862	.1408	.0521	-0.6904	.1792	12.52
14.60	.2098	-0.1002	.1616	.0050	-0.6907	.1994	14.60
16.68	.2365	-0.1174	.1911	.0627	-0.6904	.2252	16.68
18.73	.2904	-0.1329	.2163	.1373	-0.6893	.2517	18.73
20.87	.3671	-0.1503	.2456	.2327	-0.6890	.2834	20.87
Vertical tail, upper							
-10.15	-0.2578	0.0543	-0.1174	-0.0773	0.0255	-0.0705	-10.15
-8.06	-0.2441	0.0513	-0.1115	-0.0906	0.0273	-0.0680	-8.06
-5.97	-0.2304	0.0484	-0.1055	-0.1009	0.0288	-0.0711	-5.97
-3.93	-0.2210	0.0455	-0.0991	-0.1142	0.0304	-0.0725	-3.93
-1.89	-0.2100	0.0430	-0.0947	-0.1233	0.0325	-0.0745	-1.89
.20	-0.2046	0.0404	-0.0897	-0.1292	0.0347	-0.0779	.20
2.22	-0.1962	0.0379	-0.0860	-0.1353	0.0362	-0.0819	2.22
4.29	-0.1865	0.0355	-0.0842	-0.1436	0.0391	-0.0868	4.29
6.35	-0.1780	0.0335	-0.0803	-0.1532	0.0413	-0.0930	6.35
8.40	-0.1629	0.0321	-0.0780	-0.1535	0.0435	-0.1001	8.40
10.48	-0.1495	0.0306	-0.0720	-0.1757	0.0465	-0.1035	10.48
12.52	-0.1419	0.0299	-0.0663	-0.1855	0.0494	-0.1095	12.52
14.60	-0.1372	0.0286	-0.0596	-0.2000	0.0517	-0.1152	14.60
16.68	-0.1227	0.0206	-0.0551	-0.2208	0.0540	-0.1217	16.68
18.73	-0.1115	0.0291	-0.0500	-0.2415	0.0563	-0.1280	18.73
20.87	-0.0975	0.0242	-0.0417	-0.2551	0.0594	-0.1365	20.87
Speed brakes, upper							
-10.15	1.2805	-0.0336	.6409	.8133	-0.0827	.4709	-10.15
-8.06	1.2322	-0.0281	.6187	.8312	-0.0880	.4696	-8.06
-5.97	1.1539	-0.0226	.5864	.8559	-0.0995	.4939	-5.97
-3.93	1.0922	-0.0201	.5516	.8803	-0.1054	.5182	-3.93
-1.89	1.0360	-0.0281	.5276	.9537	-0.1044	.5316	-1.89
.20	.9985	-0.0282	.5168	.9966	-0.0976	.5264	.20
2.22	.9515	-0.0283	.5007	1.0498	-0.1085	.5413	2.22
4.29	.8947	-0.0229	.4819	1.1266	-0.1192	.5722	4.29
6.35	.8902	-0.0341	.4918	1.2109	-0.1300	.6122	6.35
8.40	.8377	-0.0176	.4667	1.2877	-0.1409	.6470	8.40
10.48	.7928	-0.0066	.4469	1.3588	-0.1461	.6839	10.48
12.52	.6451	.0103	.3452	1.4417	-0.1517	.7250	12.52
14.60	.6672	.0719	.2243	1.5277	-0.1623	.7677	14.60
16.68	.7780	.0163	.1425	1.6291	-0.1730	.8174	16.68
18.73	.2183	.0273	.1118	1.7252	-0.1837	.8636	18.73
20.87	.1707	.0218	.0882	1.8278	-0.1946	.9139	20.87

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103

TABLE X.- SURFACE LOADING CHARACTERISTICS AT VARIOUS EQUAL DEFLECTIONS
OF THE HORIZONTAL TAIL PANELS WITH THE VERTICAL TAILS DEFLECTED -7.5°

FOR CONFIGURATION, WFFHV_v; $\beta = 0^\circ$ - Continued(i) $M = 4.65$, $R = 2.28 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_S = 35^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
Horizontal tail, left							
-9.38	-0.2621	.0141	-.0650	-0.1779	.0223	-.0622	-9.38
-7.36	-0.1937	.0143	-.0502	-0.2088	.0233	-.0419	-7.36
-5.37	-0.1492	.0143	-.0347	-0.1633	.0171	-.0263	-5.37
-3.32	-0.1492	.0115	-.0148	-0.0981	.0135	-.0156	-3.32
-1.26	-0.1276	.0086	-.0020	-0.1012	.0028	-.0084	-1.26
.76	-0.0229	.0058	-.0060	-0.1514	-.0024	.0100	.76
2.78	.0195	.0030	.0167	.0050	-.0050	.0271	2.78
4.82	.0152	-.0002	.0191	.0231	-.0046	.0447	4.82
6.86	.0153	.0028	.0415	.0433	-.0040	.0642	6.86
8.89	.0175	-.0002	.0602	.0393	-.0030	.0849	8.89
10.95	.0253	-.0092	.0766	.0860	-.0060	.1033	10.95
12.98	.0261	-.0121	.1029	.0888	-.0111	.1284	12.98
15.01	.0361	-.0153	.1212	.1404	-.0171	.1507	15.01
17.06	.0373	-.0213	.1523	.1745	-.0225	.1810	17.06
19.12	.0442	-.0304	.1802	.2064	-.0279	.2089	19.12
21.19	.5293	-.0364	.2069	.2888	-.0342	.2369	21.19
Horizontal tail, right							
-9.38	-0.1952	.0184	-.0469	-0.1501	.0137	-.0432	-9.38
-7.36	-0.1756	.0121	-.0378	-0.1064	.0077	-.0351	-7.36
-5.37	-0.1395	.0100	-.0296	-0.0992	.0057	-.0253	-5.37
-3.32	-0.1230	.0059	-.0168	-0.0741	.0018	-.0145	-3.32
-1.26	-0.0852	.0018	-.0028	-0.0283	-.0002	-.0051	-1.26
.76	-0.0467	-.0045	.0107	-0.0304	-.0041	.0077	.76
2.78	-0.0082	-.0043	.0258	.0224	-.0060	.0218	2.78
4.82	.0110	-.0085	.0402	.0555	-.0119	.0369	4.82
6.86	.0036	-.0129	.0512	.0824	-.0137	.0440	6.86
8.89	.0395	-.0190	.0634	.1072	-.0176	.0563	8.89
10.95	.0537	-.0342	.0833	.1473	-.0278	.0740	10.95
12.98	.0802	-.0469	.1050	.1964	-.0379	.0940	12.98
15.01	.1180	-.0616	.1267	.2247	-.0499	.1188	15.01
17.06	.1547	-.0765	.1586	.3094	-.0640	.1445	17.06
19.12	.2002	-.0893	.1852	.3860	-.0761	.1673	19.12
21.19	.2563	-.1018	.2117	.4525	-.0882	.1936	21.19
Vertical tail, upper							
-9.38	-0.2235	.0523	-.1094	-0.0588	.0271	-.0592	-9.38
-7.36	-0.1935	.0482	-.1021	-0.1754	.0291	-.0603	-7.36
-5.37	-0.1675	.0442	-.0901	-0.0880	.0312	-.0634	-5.37
-3.32	-0.1509	.0415	-.0858	-0.1033	.0304	-.0646	-3.32
-1.26	-0.1364	.0394	-.0823	-0.1149	.0323	-.0620	-1.26
.76	-0.1402	.0389	-.0748	-0.1088	.0315	-.0683	.76
2.78	-0.1459	.0389	-.0684	-0.1208	.0319	-.0612	2.78
4.82	-0.1436	.0376	-.0674	-0.1322	.0330	-.0637	4.82
6.86	-0.1290	.0355	-.0700	-0.1451	.0362	-.0723	6.86
8.89	-0.1266	.0321	-.0631	-0.1581	.0391	-.0805	8.89
10.95	-0.1201	.0288	-.0541	-0.1815	.0422	-.0859	10.95
12.98	-0.1031	.0208	-.0438	-0.2041	.0472	-.0953	12.98
15.01	-0.0877	.0154	-.0310	-0.2373	.0517	-.1072	15.01
17.06	-0.0677	.0108	-.0250	-0.2577	.0566	-.1149	17.06
19.12	-0.0411	.0080	-.0188	-0.2637	.0594	-.1180	19.12
21.19	-0.0184	.0054	-.0083	-0.2744	.0670	-.1229	21.19
Speed brakes, upper							
-9.38	1.2963	-.1506	.7000	.4402	.0025	.2127	-9.38
-7.36	1.1876	-.1505	.6426	.5635	-.0289	.3144	-7.36
-5.37	1.0906	-.1504	.5857	.7112	-.0675	.4171	-5.37
-3.32	1.0415	-.1429	.5619	.7563	-.0987	.4631	-3.32
-1.26	.9743	-.1278	.5284	.6644	-.0666	.4924	-1.26
.76	.6879	-.1053	.4738	.9586	-.0732	.5173	.76
2.78	.7244	-.0826	.3862	1.0510	-.0957	.5617	2.78
4.82	.6151	-.0905	.3509	1.1886	-.1182	.6341	4.82
6.86	.5271	-.0756	.3129	1.3145	-.1407	.7013	6.86
8.89	.3592	-.0452	.1973	1.4287	-.1556	.7606	8.89
10.95	.1764	-.0372	.0713	1.5670	-.1704	.8309	10.95
12.98	.1001	-.0598	.0562	1.7162	-.1926	.9034	12.98
15.01	.0668	-.0524	.0458	1.9041	-.1993	.9998	15.01
17.06	.0503	-.0450	.0370	2.1055	-.2138	1.0999	17.06
19.12	.0556	-.0374	.0356	2.2891	-.2358	1.1820	19.12
21.19	.0380	-.0224	.0217	2.4790	-.2576	1.2753	21.19

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TABLE X.- SURFACE LOADING CHARACTERISTICS AT VARIOUS EQUAL DEFLECTIONS
OF THE HORIZONTAL TAIL PANELS WITH THE VERTICAL TAILS DEFLECTED -7.5°

FOR CONFIGURATION, WFHV; $\beta = 0^\circ$ - Continued(j) $M = 2.29$, $R = 1.87 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = -20^\circ$, $\delta_S = 35^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg	
	Wing, left				Wing, right			
-10.22	-2980	.0334	-.1719	-.3398	.0398	-.1515	-10.22	
-8.07	-3502	.0261	-.1276	-.3821	.0356	-.1168	-8.07	
-5.99	-3107	.0189	-.0965	-.2329	.0273	-.0877	-5.99	
-3.92	-2052	.0175	-.0602	-.1304	.0171	-.0558	-3.92	
-1.83	-1011	.0107	-.0279	-.0576	.0097	-.0211	-1.83	
.24	.0187	.0054	.0016	.0712	.0048	.0096	.24	
2.31	.0509	.0054	.0435	.0826	.0044	.0502	2.31	
4.41	.1855	-.0040	.0710	.1342	.0010	.0829	4.41	
6.50	.3205	-.0137	.0985	.2180	-.0088	.1144	6.50	
8.59	.3799	-.0193	.1304	.2577	-.0149	.1499	8.59	
10.65	.3959	-.0286	.1671	.3099	-.0219	.1826	10.65	
12.78	.4085	-.0360	.2010	.3002	-.0279	.2153	12.78	
14.86	.4787	-.0458	.2277	.4240	-.0386	.2420	14.86	
16.97	.5249	-.0553	.2612	.4908	-.0497	.2727	16.97	
19.06	.5774	-.0615	.2875	.5501	-.0593	.2971	19.06	
21.18	.6362	-.0712	.3178	.6274	-.0688	.3246	21.18	
	Horizontal tail, left				Horizontal tail, right			
-10.22	-7020	.1576	-.2788	-.6225	.1593	-.2748	-10.22	
-8.07	-6724	.1512	-.2615	-.5543	.1468	-.2601	-8.07	
-5.99	-6591	.1272	-.2501	-.5331	.1235	-.2510	-5.99	
-3.92	-6371	.1180	-.2535	-.5128	.1093	-.2487	-3.92	
-1.83	-6080	.1154	-.2553	-.4734	.1055	-.2477	-1.83	
.24	.5940	.1087	-.2427	-.4239	.1006	-.2381	.24	
2.31	.5170	.0973	-.2215	-.3720	.0920	-.2165	2.31	
4.41	.4453	.0843	-.1898	-.2864	.0717	-.1843	4.41	
6.50	.3597	.0634	-.1529	-.2273	.0491	-.1438	6.50	
8.59	.2641	.0441	-.1167	-.1717	.0306	-.1077	8.59	
10.65	.2000	.0259	-.0741	-.1114	.0090	-.0680	10.65	
12.78	.1355	.0059	-.0442	-.0649	-.0071	-.0388	12.78	
14.86	.1046	-.0032	-.0236	-.0315	-.0173	-.0191	14.86	
16.97	.0421	-.0308	-.0049	-.0465	-.0414	-.0066	16.97	
19.06	.0076	-.0441	-.0222	-.0619	-.0604	-.0353	19.06	
21.18	.0261	-.0532	-.0376	-.1236	-.0730	-.0554	21.18	
	Vertical tail, upper				Vertical tail, lower			
-10.22	-2574	.0422	-.1135	-.1399	.0411	-.0771	-10.22	
-8.07	-2504	.0410	-.1067	-.1385	.0384	-.0774	-8.07	
-5.99	-2400	.0414	-.1039	-.1402	.0338	-.0771	-5.99	
-3.92	-2332	.0424	-.1007	-.1448	.0323	-.0779	-3.92	
-1.83	-2263	.0432	-.0975	-.1549	.0306	-.0794	-1.83	
.24	.2173	.0442	-.0952	-.1589	.0303	-.0825	.24	
2.31	.2098	.0463	-.0936	-.1640	.0315	-.0856	2.31	
4.41	.1991	.0450	-.0908	-.1740	.0323	-.0893	4.41	
6.50	.1857	.0443	-.0865	-.1810	.0323	-.0910	6.50	
8.59	.1909	.0500	-.0865	-.1819	.0343	-.0976	8.59	
10.65	.2027	.0602	-.0892	-.1927	.0350	-.0984	10.65	
12.78	.1809	.0509	-.0819	-.2013	.0356	-.1013	12.78	
14.86	.1881	.0551	-.0630	-.2069	.0356	-.1018	14.86	
16.97	.1882	.0564	-.0828	-.2123	.0347	-.1061	16.97	
19.06	.1820	.0589	-.0856	-.2247	.0338	-.1124	19.06	
21.18	.1492	.0482	-.0828	-.2296	.0345	-.1158	21.18	
	Speed brakes, upper				Speed brakes, lower			
-10.22	1.3145	-.1627	.6644	.9926	-.0867	.5325	-10.22	
-8.07	1.2807	-.1676	.6535	.9789	-.0770	.5152	-8.07	
-5.99	1.2771	-.1770	.6635	.9509	-.0721	.4946	-5.99	
-3.92	1.2701	-.1817	.6680	.9652	-.0672	.4979	-3.92	
-1.83	1.2531	-.1864	.6656	.9945	-.0763	.5049	-1.83	
.24	1.2391	-.1818	.6653	1.0384	-.0853	.5152	.24	
2.31	1.2321	-.1819	.6666	1.0892	-.0992	.5335	2.31	
4.41	1.1777	-.1773	.6432	1.1393	-.1036	.5546	4.41	
6.50	1.1972	-.1913	.6649	1.1965	-.1079	.5789	6.50	
8.59	1.1803	-.1822	.6650	1.2507	-.1128	.6035	8.59	
10.65	1.1190	-.1633	.6236	1.3029	-.1169	.6231	10.65	
12.78	.9894	-.1357	.5413	1.3495	-.1214	.6434	12.78	
14.86	.8644	-.1075	.4583	1.4066	-.1209	.6676	14.86	
16.97	.6100	-.1021	.2876	1.4673	-.1205	.6942	16.97	
19.06	.4392	-.1346	.2055	1.5106	-.1249	.7091	19.06	
21.18	.3402	-.1207	.1623	1.5684	-.1291	.7289	21.18	

DECEMBER 1980

TABLE X. - SURFACE LOADING CHARACTERISTICS AT VARIOUS EQUAL DEFLECTIONS
OF THE HORIZONTAL TAIL PANELS WITH THE VERTICAL TAILS DEFLECTED -7.5°

FOR CONFIGURATION, WFHVv; $\beta = 0^\circ$ - Continued

$$(k) \quad M = 2.98, \quad R = 1.87 \times 10^6, \quad \delta_{H\text{ L}} = \delta_{H\text{ R}} = -20^\circ, \quad \delta_s = 35^\circ$$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-10.07	-0.2776	0.0101	-0.1176	-0.2846	0.0147	-0.1005	-10.07
-8.02	-0.2284	0.0040	-0.0937	-0.2022	0.0094	-0.0794	-8.02
-5.97	-0.1755	-0.0002	-0.0670	-0.1185	0.0044	-0.0566	-5.97
-3.89	-0.0913	-0.0044	-0.0451	-0.0178	-0.0036	-0.0363	-3.89
-1.86	-0.0377	-0.0086	-0.0179	0.0891	0.0113	-0.0167	-1.86
.21	0.0417	-0.0107	0.0012	0.1923	0.0193	-0.0028	.21
2.27	0.1073	-0.0129	0.0223	0.2351	-0.0237	0.0187	2.27
4.34	0.2413	-0.0177	0.0367	0.3303	-0.0312	0.0359	4.34
6.39	0.2776	-0.0221	0.0646	0.3795	-0.0354	0.0638	6.39
8.45	0.3289	-0.0245	0.0897	0.3943	-0.0386	0.0949	8.45
10.51	0.3654	-0.0290	0.1172	0.4591	-0.0432	0.1204	10.51
12.57	0.3999	-0.0334	0.1435	0.4713	-0.0466	0.1483	12.57
14.64	0.4334	-0.0336	0.1699	0.4679	-0.0543	0.1770	14.64
16.73	0.4808	-0.0491	0.2034	0.4709	-0.0609	0.2137	16.73
18.82	0.5373	-0.0517	0.2317	0.5405	-0.0700	0.2424	18.82
20.89	0.6145	-0.0633	0.2584	0.5921	-0.0788	0.2715	20.89
Horizontal tail, left				Horizontal tail, right			
-10.07	-0.7223	0.1104	-0.2359	-0.9722	-0.6969	-0.1689	-10.07
-8.02	-0.6992	0.1168	-0.2340	-0.9513	-0.6967	-0.1668	-8.02
-5.97	-0.6822	0.1120	-0.2263	-0.9427	-0.6948	-0.1652	-5.97
-3.89	-0.6451	0.0839	-0.2128	-0.8946	-0.6948	-0.1563	-3.89
-1.86	-0.6213	0.0714	-0.2071	-0.8537	-0.6962	-0.1499	-1.86
.21	-0.5858	0.0650	-0.1976	-0.8187	-0.6954	-0.1416	.21
2.27	-0.5307	0.0559	-0.1744	-0.7429	-0.6937	-0.1194	2.27
4.34	-0.4423	0.0406	-0.1432	-0.6772	-0.6950	-0.0879	4.34
6.39	-0.3874	0.0218	-0.1068	-0.6036	-0.6944	-0.0533	6.39
8.45	-0.3176	0.0047	-0.0780	-0.5497	-0.6931	-0.0252	8.45
10.51	-0.2760	-0.0139	-0.0563	-0.5313	-0.6928	-0.0037	10.51
12.57	-0.2605	-0.0311	-0.0365	-0.4982	-0.6928	0.0125	12.57
14.64	-0.2269	-0.0404	-0.0323	-0.4920	-0.6932	0.0171	14.64
16.73	-0.2287	-0.0437	-0.0264	-0.4784	-0.6932	0.0218	16.73
18.82	-0.2006	-0.0483	-0.0202	-0.4649	-0.6929	0.0276	18.82
20.89	-0.1832	-0.0546	-0.0125	-0.4443	-0.6923	0.0352	20.89
Vertical tail, upper				Vertical tail, lower			
-10.07	-0.2562	0.0538	-0.1168	-0.0829	0.0269	-0.0703	-10.07
-8.02	-0.2408	0.0509	-0.1099	-0.0955	0.0280	-0.0674	-8.02
-5.97	-0.2270	0.0479	-0.1039	-0.1009	0.0288	-0.0711	-5.97
-3.89	-0.2193	0.0450	-0.0984	-0.1145	0.0310	-0.0725	-3.89
-1.86	-0.2116	0.0425	-0.0929	-0.1207	0.0332	-0.0762	-1.86
.21	-0.2028	0.0399	-0.0890	-0.1322	0.0347	-0.0762	.21
2.27	-0.1916	0.0374	-0.0862	-0.1355	0.0369	-0.0816	2.27
4.34	-0.1848	0.0350	-0.0835	-0.1436	0.0391	-0.0868	4.34
6.39	-0.1764	0.0335	-0.0796	-0.1485	0.0413	-0.0933	6.39
8.45	-0.1652	0.0319	-0.0768	-0.1630	0.0443	-0.0990	8.45
10.51	-0.1518	0.0306	-0.0709	-0.1759	0.0470	-0.1033	10.51
12.57	-0.1447	0.0301	-0.0654	-0.1855	0.0494	-0.1095	12.57
14.64	-0.1372	0.0286	-0.0596	-0.1955	0.0517	-0.1158	14.64
16.73	-0.1254	0.0312	-0.0539	-0.2137	0.0548	-0.1240	16.73
18.82	-0.1140	0.0293	-0.0489	-0.2390	0.0570	-0.1297	18.82
20.89	-0.1002	0.0247	-0.0406	-0.2521	0.0594	-0.1385	20.89
Speed brakes, upper				Speed brakes, lower			
-10.07	1.2789	-0.0776	0.6414	0.7945	-0.0879	0.4408	-10.07
-8.02	1.2383	-0.0666	0.6227	0.7949	-0.0820	0.4335	-8.02
-5.97	1.1812	-0.0666	0.6000	0.8187	-0.0821	0.4554	-5.97
-3.89	1.1253	-0.0667	0.5780	0.8311	-0.0823	0.4676	-3.89
-1.86	1.0851	-0.0723	0.5669	0.9169	-0.0812	0.4895	-1.86
.21	1.0520	-0.0724	0.5589	0.9849	-0.0803	0.5052	.21
2.27	.9956	-0.0614	0.5348	1.0287	-0.0911	0.5156	2.27
4.34	0.9233	-0.0560	0.5071	1.0123	-0.1018	0.5580	4.34
6.39	0.9272	-0.0672	0.5245	1.0192	-0.1184	0.5947	6.39
8.45	0.8850	-0.0452	0.5048	1.2778	-0.1234	0.6311	8.45
10.51	0.8288	-0.0231	0.4680	1.3544	-0.1343	0.6677	10.51
12.57	0.6860	-0.0118	0.3750	1.4307	-0.1396	0.7059	12.57
14.64	0.4999	-0.0053	0.2431	1.5160	-0.1450	0.7483	14.64
16.73	0.3392	-0.0170	0.1950	1.6134	-0.1557	0.7933	16.73
18.82	0.2948	-0.0060	0.1718	1.7025	-0.1665	0.8346	18.82
20.89	0.2345	-0.0060	0.1432	1.7944	-0.1771	0.8780	20.89

TABLE X. - SURFACE LOADING CHARACTERISTICS AT VARIOUS EQUAL DEFLECTIONS
OF THE HORIZONTAL TAIL PANELS WITH THE VERTICAL TAILS DEFLECTED -7.5°

FOR CONFIGURATION, WFHVv; $\beta = 0^\circ$ - Concluded

(l) $M = 4.65$, $R = 2.28 \times 10^6$, $\delta_{H,L} = \delta_{H,R} = -20^\circ$, $\delta_S = 35^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg	
	Wing, left				Wing, right			
-9.40	-0.2423	.0199	-0.0678	-0.1520	.0185	-0.0634	-9.40	
-7.31	-0.1929	.0113	-0.0502	-0.1829	.0201	-0.0435	-7.31	
-5.32	-0.1284	.0173	-0.0383	-0.1386	.0169	-0.0275	-5.32	
-3.33	-0.1252	.0115	-0.0159	-0.0724	.0099	-0.0167	-3.33	
-1.24	-0.1037	.0086	.0008	-0.168	.0008	-0.0100	-1.24	
.77	.0020	.0030	.0020	.0102	.0028	.0084	.77	
2.77	.0195	.0030	.0167	.0062	.0082	.0267	2.77	
4.85	.1288	.0058	.0227	.0485	.0082	.0431	4.85	
6.88	.1314	.0028	.0451	.0674	.0046	.0630	6.88	
8.91	.1558	-.0002	.0634	.0634	-.0034	.0837	8.91	
10.95	.2304	-.0090	.0797	.1103	-.0066	.1021	10.95	
12.99	.2591	-.0092	.1029	.0888	-.0111	.1280	12.99	
15.03	.3141	-.0151	.1244	.1404	-.0171	.1507	15.03	
17.09	.3552	-.0211	.1559	.1745	-.0225	.1810	17.09	
19.16	.4886	-.0336	.1754	.2790	-.0292	.2054	19.16	
21.23	.5546	-.0396	.2054	.3141	-.0376	.2357	21.23	
	Horizontal tail, left				Horizontal tail, right			
-9.40	-0.5808	.0195	-0.1964	-0.4657	.0152	-0.1934	-9.40	
-7.31	-0.5082	.0198	-0.1900	-0.4140	.0171	-0.1809	-7.31	
-5.32	-0.5016	.0108	-0.1634	-0.3465	.0095	-0.1620	-5.32	
-3.33	-0.4960	.0076	-0.1467	-0.3056	.0070	-0.1448	-3.33	
-1.24	-0.4956	.0033	-0.1398	-0.2721	.0062	-0.1424	-1.24	
.77	-0.4545	.0428	-0.1206	-0.2249	.0477	-0.1258	.77	
2.77	-0.4343	.0367	-0.1061	-0.2110	.0418	-0.1118	2.77	
4.85	-0.3962	.0153	-0.0853	-0.1766	.0233	-0.0898	4.85	
6.88	-0.3772	-.0061	.0696	-0.1523	.0027	-0.0736	6.88	
8.91	-0.3978	-.0125	.0662	-0.1659	-.0036	-0.0698	8.91	
10.95	-0.4012	-.0126	.0733	-0.1848	-.0035	-0.0744	10.95	
12.99	-0.4096	-.0127	.0777	-0.1938	-.0037	-0.0788	12.99	
15.03	-0.4317	-.0170	.0796	-0.2239	-.0059	-0.0798	15.03	
17.09	-0.4259	-.0192	.0823	-0.2249	-.0080	-0.0813	17.09	
19.16	-0.4241	-.0234	.0822	-0.1982	-.0121	-0.0834	19.16	
21.23	-0.4164	-.0276	.0792	-0.2106	-.0163	-0.0797	21.23	
	Vertical tail, upper				Vertical tail, lower			
-9.40	-0.2178	.0523	-.1096	-0.0649	.0264	-0.0589	-9.40	
-7.31	-0.2004	.0482	-.0991	-0.0766	.0282	-0.0563	-7.31	
-5.32	-0.1674	.0442	-.0901	-0.0853	.0312	-0.0614	-5.32	
-3.33	-0.1542	.0415	-.0842	-0.1007	.0304	-0.0626	-3.33	
-1.24	-0.1453	.0394	-.0803	-0.1079	.0314	-0.0623	-1.24	
.77	-0.1434	.0389	-.0734	-0.1056	.0304	-0.0663	.77	
2.77	-0.1459	.0389	-.0684	-0.1221	.0319	-0.0674	2.77	
4.85	-0.1436	.0383	-.0674	-0.1294	.0321	-0.0623	4.85	
6.88	-0.1322	.0355	-.0684	-0.1401	.0350	-0.0688	6.88	
8.91	-0.1268	.0329	-.0631	-0.1527	.0371	-0.0774	8.91	
10.95	-0.1201	.0294	-.0541	-0.1724	.0411	-0.0851	10.95	
12.99	-0.1031	.0214	-.0438	-0.1881	.0452	-0.0950	12.99	
15.03	-0.0877	.0154	-.0310	-0.2194	.0504	-0.1052	15.03	
17.09	-0.0678	.0114	-.0250	-0.2432	.0544	-0.1104	17.09	
19.16	-0.0414	.0095	-.0188	-0.2556	.0574	-0.1132	19.16	
21.23	-0.0230	.0069	-.0073	-0.2623	.0649	-0.1200	21.23	
	Speed brakes, upper				Speed brakes, lower			
-9.40	1.3021	-.1581	.7014	.4289	.0025	.2051	-9.40	
-7.31	1.1894	-.0833	.6417	.5919	-.0209	.3233	-7.31	
-5.32	1.0872	-.0906	.5812	.7110	-.0595	.4092	-5.32	
-3.33	1.0375	-.0757	.5596	.7785	-.0829	.4653	-3.33	
-1.24	.9716	-.0607	.5267	.8820	-.0664	.4991	-1.24	
.77	.8789	-.0381	.4680	.9862	-.0653	.5309	.77	
2.77	.7213	-.0231	.3844	1.0845	-.0878	.5767	2.77	
4.85	.6339	-.0458	.3691	1.2106	-.1103	.6440	4.85	
6.88	.5729	-.0310	.3497	1.3422	-.1329	.7150	6.88	
8.91	.3680	-.0004	.2011	1.4518	-.1553	.7685	8.91	
10.95	.1848	.0075	.0798	1.6005	-.1700	.8459	10.95	
12.99	.1355	-.0152	.0833	1.7382	-.1847	.9133	12.99	
15.03	.0866	-.0152	.0576	1.9215	-.2068	1.0064	15.03	
17.09	.0754	-.0077	.0544	2.1334	-.2211	1.1111	17.09	
19.16	.0647	-.0001	.0396	2.3626	-.2431	1.2276	19.16	
21.23	.0538	.0074	.0296	2.5236	-.2574	1.3005	21.23	

L-350

DECLASSIFIED

107

TABLE XI. - SURFACE LOADING CHARACTERISTICS WITH THE HORIZONTAL TAIL

PANELS UNDEFLECTED AND THE VERTICAL TAILS DEFLECTED -7.5° FOR CONFIGURATION, WPHVv; $\beta = -6.1^\circ$ (a) $M = 2.29$, $R = 1.87 \times 10^6$, $\delta_s = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg	
	Wing, left				Wing, right			
-10.35	-0.4047	.0400	-0.1567	-0.3315	.0362	-0.1451	-10.35	
-8.15	-0.3757	.0348	-0.1208	-0.3285	.0310	-0.1140	-8.15	
-6.10	-0.2904	.0279	-0.0893	-0.2894	.0243	-0.0805	-6.10	
-4.00	-0.2180	.0211	-0.0566	-0.1885	.0163	-0.0502	-4.00	
-1.91	-0.0999	.0179	-0.0251	-0.0708	.0101	-0.0179	-1.91	
.18	-0.0588	.0143	.0132	.0219	.0076	.0092	.18	
2.23	.0319	.0090	.0415	.0371	.0113	.0554	2.23	
4.34	.1791	.0016	.0674	.1103	.0002	.0897	4.34	
6.45	.2399	-.0042	.1013	.1653	-.0088	.1240	6.45	
8.50	.3733	-.0119	.1276	.2341	-.0179	.1559	8.50	
10.62	.4507	-.0179	.1611	.2848	-.0271	.1862	10.62	
12.69	.4856	-.0255	.1994	.3730	-.0370	.2073	12.69	
14.81	.5353	-.0350	.2357	.4306	-.0468	.2301	14.81	
16.90	.6007	-.0450	.2711	.4625	-.0575	.2568	16.90	
18.98	.6185	-.0543	.3086	.5183	-.0633	.2791	18.98	
21.20	.7108	-.0647	.3381	.5897	-.0710	.3015	21.20	
	Horizontal tail, left				Horizontal tail, right			
-10.35	-0.2990	.0665	-0.1398	-0.1367	.0348	-0.0799	-10.35	
-8.15	-0.2369	.0575	-0.1187	-0.0687	.0237	-0.0548	-8.15	
-6.10	-0.1904	.0510	-0.0957	-0.0445	.0175	-0.0382	-6.10	
-4.00	-0.1549	.0419	-0.0792	-0.0162	.0087	-0.0200	-4.00	
-1.91	-0.1232	.0288	-0.0524	.0343	-.0025	.0018	-1.91	
.18	-0.0565	.0117	-.0208	.0619	-.0111	.0256	.18	
2.23	-.0008	-.0053	.0144	.1367	-.0212	.0497	2.23	
4.34	.0557	-.0263	.0560	.1998	-.0386	.0817	4.34	
6.45	.1142	-.0461	.0922	.2659	-.0524	.1093	6.45	
8.50	.1744	-.0631	.1235	.3323	-.0661	.1341	8.50	
10.62	.2379	-.0776	.1542	.4038	-.0813	.1609	10.62	
12.69	.3178	-.0959	.1860	.4481	-.0924	.1836	12.69	
14.81	.3826	-.1183	.2217	.5116	-.1024	.2035	14.81	
16.90	.4583	-.1341	.2554	.5710	-.1163	.2293	16.90	
18.98	.5066	-.1499	.2903	.6357	-.1311	.2555	18.98	
21.20	.5683	-.1669	.3227	.7120	-.1474	.2833	21.20	
	Vertical tail, upper				Vertical tail, lower			
-10.35	.0782	-.0196	.0339	.0577	-.0149	.0080	-10.35	
-8.15	.0644	-.0172	.0294	.0483	-.0153	.0071	-8.15	
-6.10	.0504	-.0146	.0248	.0400	-.0153	.0074	-6.10	
-4.00	.0411	-.0129	.0223	.0386	-.0148	.0100	-4.00	
-1.91	.0272	-.0126	.0177	.0456	-.0144	.0119	-1.91	
.18	.0152	-.0123	.0119	.0474	-.0138	.0168	.18	
2.23	.0124	-.0119	.0087	.0615	-.0135	.0210	2.23	
4.34	.0129	-.0110	.0071	.0741	-.0133	.0210	4.34	
6.45	.0148	-.0119	.0060	.0799	-.0135	.0253	6.45	
8.50	.0249	-.0152	.0124	.0932	-.0137	.0287	8.50	
10.62	.0311	-.0183	.0151	.1023	-.0133	.0324	10.62	
12.69	.0436	-.0221	.0170	.1179	-.0137	.0344	12.69	
14.81	.0526	-.0260	.0172	.1283	-.0138	.0358	14.81	
16.90	.0747	-.0317	.0255	.1308	-.0133	.0378	16.90	
18.98	.0394	-.0177	.0268	.1359	-.0133	.0387	18.98	
21.20	.0358	-.0146	.0291	.1432	-.0129	.0378	21.20	

TABLE XI. - SURFACE LOADING CHARACTERISTICS WITH THE HORIZONTAL TAIL

PANELS UNDEFLECTED AND THE VERTICAL TAILS DEFLECTED -7.5°

FOR CONFIGURATION, WFHVv; $\beta = -6.1^\circ$ - Continued(b) $M = 2.98$, $R = 1.87 \times 10^6$, $\delta_S = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg	
	Wing, left				Wing, right			
-10.15	-0.2543	0.0334	-0.1232	-0.4051	0.0342	-0.0973	-10.15	
-8.03	-0.2898	0.0312	-0.0917	-0.3835	0.0326	-0.0782	-8.03	
-6.01	-0.1861	0.0253	-0.0694	-0.2782	0.0249	-0.0550	-6.01	
-3.96	-0.1159	0.0149	-0.0451	-0.2623	0.0215	-0.0239	-3.96	
-1.88	-0.0826	0.0105	-0.0187	-0.1795	0.0143	-0.0028	-1.88	
.17	.0002	.0064	.0016	-0.1248	.0099	.0219	.17	
2.23	-.0034	.0086	.0299	-0.1219	.0111	.0498	2.23	
4.28	.1671	.0042	.0443	-0.0385	.0062	.0726	4.28	
6.35	.2730	-.0006	.0666	.0407	-.0010	.0921	6.35	
8.41	.3119	-.0072	.0957	.0511	-.0046	.1184	8.41	
10.47	.3518	-.0117	.1264	.0632	-.0103	.1447	10.47	
12.55	.4128	-.0183	.1579	.1131	-.0191	.1707	12.55	
14.61	.4414	-.0249	.1938	.1747	-.0259	.1910	14.61	
16.70	.4952	-.0340	.2337	.2423	-.0350	.2165	16.70	
18.76	.5748	-.0410	.2640	.2702	-.0388	.2420	18.76	
20.89	.6220	-.0479	.2991	.2994	-.0450	.2672	20.89	
	Horizontal tail, left				Horizontal tail, right			
-10.15	-0.2918	0.0523	-0.1117	-0.0782	0.0309	-0.0762	-10.15	
-8.03	-0.2611	0.0478	-0.1002	-0.0236	0.0206	-0.0507	-8.03	
-6.01	-0.2160	0.0464	-0.0846	-0.0261	0.0134	-0.0315	-6.01	
-3.96	-0.1523	0.0309	-0.0620	0.0359	0.0089	-0.0168	-3.96	
-1.88	-0.1022	0.0200	-0.0380	0.0719	0.0116	-0.0008	-1.88	
.17	.0459	.0045	-0.0118	0.0934	-.0057	.0183	.17	
2.23	.0317	-.0031	.0124	.1487	-.0160	.0367	2.23	
4.28	.0513	-.0187	.0382	.2026	-.0280	.0583	4.28	
6.35	.1104	-.0326	.0627	.2487	-.0397	.0859	6.35	
8.41	.1513	-.0436	.0896	.3028	-.0516	.1071	8.41	
10.47	.2058	-.0590	.1190	.3527	-.0588	.1239	10.47	
12.55	.2497	-.0731	.1429	.3958	-.0664	.1413	12.55	
14.61	.2872	-.0872	.1673	.4435	-.0766	.1623	14.61	
16.70	.3617	-.1042	.1953	.5108	-.0901	.1858	16.70	
18.76	.4112	-.1182	.2224	.5641	-.1018	.2098	18.76	
20.89	.5054	-.1336	.2502	.6307	-.1152	.2357	20.89	
	Vertical tail, upper				Vertical tail, lower			
-10.15	.0577	-.0316	.0227	.0159	-.0050	.0023	-10.15	
-8.03	.0541	-.0286	.0211	.0189	-.0050	.0043	-8.03	
-6.01	.0513	-.0247	.0179	.0180	-.0050	.0074	-6.01	
-3.96	.0454	-.0196	.0177	.0124	-.0070	.0102	-3.96	
-1.88	.0280	-.0150	.0165	.0229	-.0087	.0137	-1.88	
.17	.0257	-.0100	.0115	.0392	-.0114	.0210	.17	
2.23	.0140	-.0075	.0060	.0488	-.0164	.0262	2.23	
4.28	.0090	-.0056	.0062	.0584	-.0212	.0313	4.28	
6.35	.0076	-.0044	.0055	.0757	-.0262	.0347	6.35	
8.41	.0078	-.0056	.0055	.0787	-.0310	.0387	8.41	
10.47	.0047	-.0070	.0062	.0864	-.0360	.0427	10.47	
12.55	.0023	-.0090	.0094	.0920	-.0402	.0452	12.55	
14.61	.0118	-.0110	.0092	.0928	-.0443	.0441	14.61	
16.70	.0079	-.0085	.0142	.1100	-.0485	.0438	16.70	
18.76	.0146	-.0110	.0172	.1196	-.0528	.0455	18.76	
20.89	.0264	-.0134	.0227	.1261	-.0563	.0489	20.89	

DECLASSIFIED

109

TABLE XI. - SURFACE LOADING CHARACTERISTICS WITH THE HORIZONTAL TAIL
PANELS UNDEFLECTED AND THE VERTICAL TAILS DEFLECTED -7.5°

FOR CONFIGURATION, WFHVv; $\beta = -6.1^\circ$ - Continued

(c) $M = 4.65$, $R = 2.28 \times 10^6$, $\delta_s = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-9.42	-0.2666	.0141	-.0690	.1516	.0002	-.0734	-9.42
-7.32	-0.2666	.0111	-.0490	-.0068	.0070	-.0518	-7.32
-5.30	-0.1937	.0028	-.0327	.0333	.0070	-.0379	-5.30
-3.29	-0.1458	-.0002	-.0148	.0973	.0000	-.0275	-3.29
-1.28	-0.2150	-.0002	.0120	.1258	-.0028	-.0136	-1.28
.76	-0.1039	-.0030	.0183	.1348	-.0113	.0028	.76
2.78	-.0820	-.0030	.0351	.1518	-.0141	.0175	2.78
4.85	.0042	-.0030	.0443	.1456	-.0135	.0363	4.85
6.89	.1408	-.0030	.0510	.1406	-.0157	.0546	6.89
8.89	.1901	-.0090	.0682	.1611	-.0215	.0722	8.89
10.95	.2196	-.0119	.0913	.1803	-.0241	.0889	10.95
13.00	.2954	-.0151	.1097	.2274	-.0302	.1073	13.00
15.04	.3741	-.0183	.1300	.2292	-.0322	.1324	15.04
17.08	.4180	-.0245	.1635	.2595	-.0340	.1603	17.08
19.10	.4802	-.0277	.1914	.3151	-.0398	.1874	19.10
21.22	.5959	-.0338	.2189	.3775	-.0456	.2209	21.22
Horizontal tail, left				Horizontal tail, right			
-9.42	-0.1878	.0270	-.0672	-.1561	.0200	-.0403	-9.42
-7.32	-0.1531	.0228	-.0549	-.1212	.0159	-.0312	-7.32
-5.30	-0.1297	.0208	-.0431	-.0786	.0100	-.0157	-5.30
-3.29	-0.0940	.0145	-.0308	-.0423	.0081	-.0082	-3.29
-1.28	-0.0583	.0083	-.0187	-.0178	.0022	.0026	-1.28
.76	-.0158	.0041	-.0074	-.0048	-.0038	.0186	.76
2.78	.0236	.0023	.0076	.0369	-.0118	.0322	2.78
4.85	.0491	-.0083	.0294	.0521	-.0158	.0446	4.85
6.89	.0844	-.0188	.0455	.0856	-.0218	.0558	6.89
8.89	.0892	-.0317	.0611	.1188	-.0280	.0690	8.89
10.95	.1210	-.0402	.0758	.1505	-.0359	.0842	10.95
13.00	.1485	-.0508	.0931	.1818	-.0439	.1030	13.00
15.04	.1782	-.0592	.1123	.2311	-.0540	.1230	15.04
17.08	.2150	-.0697	.1399	.3058	-.0681	.1498	17.08
19.10	.2537	-.0804	.1632	.3707	-.0821	.1783	19.10
21.22	.3020	-.0930	.1910	.4423	-.1001	.2127	21.22
Vertical tail, upper				Vertical tail, lower			
-9.42	-.0068	-.0092	-.0163	.1065	.0059	-.0068	-9.42
-7.32	.0030	-.0092	-.0147	.0956	.0063	-.0043	-7.32
-5.30	-.0011	-.0096	-.0044	.1070	.0050	-.0068	-5.30
-3.29	.0114	-.0090	-.0037	.1116	.0041	-.0091	-3.29
-1.28	.0093	-.0090	.0007	.1095	.0033	-.0111	-1.28
.76	.0180	-.0075	-.0011	.1100	.0015	-.0219	.76
2.78	.0233	-.0075	.0014	.1063	-.0002	-.0253	2.78
4.85	.0249	-.0062	.0021	.1060	-.0011	-.0208	4.85
6.89	.0219	-.0047	.0039	.0876	-.0006	-.0239	6.89
8.89	.0218	-.0041	.0039	.0836	-.0022	-.0276	8.89
10.95	.0171	-.0026	.0048	.0748	-.0031	-.0293	10.95
13.00	.0140	.0002	.0067	.0790	-.0048	-.0373	13.00
15.04	.0140	.0002	.0067	.0703	-.0066	-.0447	15.04
17.08	.0096	-.0007	.0076	.0628	-.0085	-.0407	17.08
19.10	.0143	-.0020	.0067	.0691	-.0113	-.0370	19.10
21.22	.0124	-.0013	.0057	.0810	-.0159	-.0299	21.22

TABLE XI. - SURFACE LOADING CHARACTERISTICS WITH THE HORIZONTAL TAIL

PANELS UNDEFLECTED AND THE VERTICAL TAILS DEFLECTED -7.5° FOR CONFIGURATION, WFHVv; $\beta = -6.1^\circ$ - Continued(d) $M = 2.29$, $R = 1.87 \times 10^6$, $\delta_S = 35^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
	Wing, left			Wing, right			
-10.31	-0.3680	.0366	-0.1655	-0.3880	.0380	-0.1503	-10.31
-8.12	-0.3004	.0298	-0.1360	-0.3470	.0312	-0.1160	-8.12
-6.10	-0.2936	.0225	-0.0933	-0.3085	.0265	-0.0825	-6.10
-3.99	-0.1917	.0159	-0.0622	-0.1899	.0163	-0.0514	-3.99
-1.91	-0.0884	.0125	-0.0299	-0.1197	.0107	-0.0183	-1.91
.18	-0.0285	.0072	.0072	.0070	.0040	.0084	.18
2.27	.0335	.0036	.0415	.0201	.0058	.0518	2.27
4.33	.1195	-0.020	.0702	-0.313	.0048	.0925	4.33
6.44	.2694	-0.0115	.0973	.1169	-.0097	.1220	6.44
8.51	.3873	-0.0175	.1244	.2158	-.0197	.1527	8.51
10.59	.4671	-0.0253	.1591	.2680	-.0286	.1842	10.59
12.67	.5010	-0.0310	.1970	.3271	-.0362	.2081	12.67
14.78	.5483	-0.0388	.2321	.3712	-.0436	.2329	14.78
16.89	.6123	-0.0487	.2660	.4605	-.0557	.2556	16.89
18.95	.6574	-0.0585	.2983	.4860	-.0609	.2783	18.95
21.09	.7086	-0.0720	.3341	.5163	-.0678	.3050	21.09
	Horizontal tail, left			Horizontal tail, right			
-10.31	-0.2339	.0429	-.1204	-0.1756	.0400	-.0787	-10.31
-8.12	-0.1731	.0298	-.0976	-0.1020	.0290	-.0513	-8.12
-6.10	-0.1184	.0288	-.0822	-0.0615	.0202	-.0333	-6.10
-3.99	-0.0970	.0275	-.0709	-0.0236	.0074	-.0144	-3.99
-1.91	-0.0733	.0169	-.0478	.0271	-.0037	.0052	-1.91
.18	-0.0277	.0026	-.0174	.0936	-.0174	.0288	.18
2.27	.0301	-.0092	.0136	.1365	-.0300	.0563	2.27
4.33	.0748	-.0236	.0473	.2044	-.0412	.0821	4.33
6.44	.1230	-.0462	.0842	.2515	-.0563	.1112	6.44
8.51	.1994	-.0631	.1139	.3128	-.0687	.1361	8.51
10.59	.2527	-.0803	.1454	.3966	-.0839	.1611	10.59
12.67	.3315	-.1092	.1839	.4345	-.0950	.1831	12.67
14.78	.4119	-.1383	.2200	.4962	-.1076	.2044	14.78
16.89	.4998	-.1792	.2742	.5972	-.1317	.2334	16.89
18.95	.5734	-.2058	.3170	.6579	-.1621	.2723	18.95
21.09	.6704	-.2360	.3651	.7517	-.1964	.3146	21.09
	Vertical tail, upper			Vertical tail, lower			
-10.31	.0495	-.0067	.0344	.0467	-.0079	.0026	-10.31
-8.12	.0437	-.0047	.0319	.0364	-.0033	.0031	-8.12
-6.10	.0319	-.0031	.0264	.0360	-.0028	.0031	-6.10
-3.99	.0134	-.0023	.0195	.0268	-.0020	.0011	-3.99
-1.91	.0050	-.0028	.0158	.0201	-.0053	-.0023	-1.91
.18	.0022	-.0028	.0122	.0289	-.0070	.0048	.18
2.27	-.0014	-.0054	.0122	.0383	-.0085	.0094	2.27
4.33	.0016	-.0059	.0117	.0395	-.0101	.0142	4.33
6.44	.0009	-.0051	.0094	.0575	-.0109	.0185	6.44
8.51	.0036	-.0046	.0089	.0673	-.0113	.0159	8.51
10.59	.0163	-.0123	.0124	.0761	-.0127	.0199	10.59
12.67	.0327	-.0147	.0181	.0873	-.0137	.0225	12.67
14.78	.0342	-.0152	.0188	.0915	-.0159	.0230	14.78
16.89	.0481	-.0190	.0213	.0969	-.0186	.0250	16.89
18.95	.0975	-.0003	.0206	.0990	-.0220	.0247	18.95
21.09	.0040	-.0059	.0177	.0934	-.0260	.0256	21.09
	Speed brakes, upper			Speed brakes, lower			
-10.31	1.4161	-.1812	.6859	1.1492	-.0315	.5468	-10.31
-8.12	1.3923	-.1859	.6804	1.3051	-.0793	.6492	-8.12
-6.10	1.3750	-.1860	.6809	1.4057	-.1365	.7124	-6.10
-3.99	1.3782	-.1908	.6893	1.4089	-.1366	.7178	-3.99
-1.91	1.3815	-.1955	.6962	1.4125	-.1366	.7187	-1.91
.18	1.3916	-.2002	.7047	1.3846	-.1317	.6965	.18
2.27	1.4186	-.2002	.7172	1.3991	-.1315	.6999	2.27
4.33	1.4782	-.2051	.7707	1.4098	-.1266	.7023	4.33
6.44	1.3973	-.1590	.7525	1.4279	-.1263	.7066	6.44
8.51	1.3363	-.1544	.7229	1.4675	-.1356	.7237	8.51
10.59	1.1588	-.1300	.5497	1.5255	-.1401	.7499	10.59
12.67	.8497	-.1338	.3547	1.5737	-.1397	.7732	12.67
14.78	.5634	-.1157	.2493	1.6092	-.1394	.7893	14.78
16.89	.3515	-.1202	.1421	1.6634	-.1392	.8146	16.89
18.95	.2009	-.1395	.1208	1.7027	-.1437	.8332	18.95
21.09	.2176	-.1441	.1324	1.7594	-.1386	.8588	21.09

REF ID: A6472
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111

TABLE XI. - SURFACE LOADING CHARACTERISTICS WITH THE HORIZONTAL TAIL

PANELS UNDEFLECTED AND THE VERTICAL TAILS DEFLECTED -7.5°

FOR CONFIGURATION, WFFHVv; $\beta = -6.1^\circ$ - Continued(e) $M = 2.98$, $R = 1.87 \times 10^6$, $\delta_S = 35^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-10.10	-0.2338	.0143	-0.1220	-0.1775	.0072	-0.1105	-10.10
-8.06	-0.2178	.0103	-0.0989	-0.0654	-0.0010	-0.0977	-8.06
-6.00	-0.1793	-0.0002	-0.0698	-0.0509	-0.0044	-0.0682	-6.00
-3.96	-0.0830	.0020	-0.0518	-0.0191	-0.0082	-0.0395	-3.96
-1.90	-0.0628	-0.0044	-0.0215	.0864	-0.0137	-0.0199	-1.90
.17	.0397	-0.0064	-0.0040	.0208	-0.0197	-0.0052	.17
2.22	.0856	-0.0129	.0203	.2383	-0.0235	.0219	2.22
4.27	.1893	-0.0175	.0411	.3016	-0.0304	.0439	4.27
6.35	.2613	-0.0221	.0670	.3492	-0.0392	.0686	6.35
8.40	.3157	-0.0267	.0937	.3097	-0.0416	.1005	8.40
10.47	.3901	-0.0312	.1208	.3043	-0.0454	.1292	10.47
12.53	.4489	-0.0358	.1507	.2982	-0.0509	.1567	12.53
14.60	.5084	-0.0428	.1806	.3580	-0.0581	.1754	14.60
16.66	.5762	-0.0499	.2165	.4065	-0.0647	.2018	16.66
18.77	.6384	-0.0569	.2476	.4681	-0.0716	.2241	18.77
20.87	.7220	-0.0665	.2795	.5335	-0.0786	.2492	20.87
Horizontal tail, left				Horizontal tail, right			
-10.10	-0.2822	.0145	-0.0880	-0.6000	-0.6927	-0.0180	-10.10
-8.06	-0.2433	.0067	-0.0845	-0.5251	-0.6922	.0058	-8.06
-6.00	-0.2162	-0.0021	-0.0674	-0.4778	-0.6909	.0267	-6.00
-3.96	-0.1663	.0025	-0.0563	-0.4587	-0.6916	.0403	-3.96
-1.90	-0.1076	-0.0068	-0.0354	-0.4184	-0.6919	.0556	-1.90
.17	.0553	-0.0144	-0.0131	-0.3854	-0.6917	.0734	.17
2.22	.0220	-0.0222	.0105	-0.3451	-0.6912	.0926	2.22
4.27	.0232	-0.0316	.0325	-0.4170	-0.6910	.1244	4.27
6.35	.0537	-0.0456	.0566	-0.2162	-0.6906	.1379	6.35
8.40	.0912	-0.0580	.0814	-0.1551	-0.6902	.1597	8.40
10.47	.1309	-0.0688	.0999	-0.1076	-0.6894	.1767	10.47
12.53	.1619	-0.0815	.1217	-0.0527	-0.6896	.1917	12.53
14.60	.2130	-0.1049	.1548	-0.0124	-0.6893	.2096	14.60
16.66	.2868	-0.1346	.1948	-0.0487	-0.6888	.2315	16.66
18.77	.3493	-0.1551	.2237	.1096	-0.6887	.2547	18.77
20.87	.4349	-0.1752	.2532	.1850	-0.6882	.2757	20.87
Vertical tail, upper				Vertical tail, lower			
-10.10	.0179	-0.0204	.0202	.0691	-0.0028	-0.0034	-10.10
-8.06	.0149	-0.0170	.0190	.0654	.0013	-0.0046	-8.06
-6.00	.0104	-0.0134	.0174	.0628	.0007	-0.0028	-6.00
-3.96	.0101	-0.0100	.0128	.0670	.0020	-0.0031	-3.96
-1.90	.0058	-0.0070	.0112	.0727	.0013	.0009	-1.90
.17	.0002	-0.0034	.0087	.0790	-0.0006	.0048	.17
2.22	.0073	-0.0020	.0076	.0841	-0.0033	.0037	2.22
4.27	.0086	-0.0015	.0071	.0862	-0.0068	.0080	4.27
6.35	.0086	-0.0020	.0071	.0928	-0.0103	.0114	6.35
8.40	.0117	-0.0029	.0078	.0963	-0.0131	.0168	8.40
10.47	.0120	-0.0059	.0096	.0995	-0.0164	.0179	10.47
12.53	.0123	-0.0085	.0115	.1039	-0.0186	.0202	12.53
14.60	.0082	-0.0095	.0133	.1109	-0.0207	.0208	14.60
16.66	.0100	-0.0039	.0151	.1158	-0.0214	.0202	16.66
18.77	.0086	-0.0044	.0158	.1296	-0.0223	.0188	18.77
20.87	.0051	-0.0064	.0195	.1315	-0.0231	.0199	20.87
Speed brakes, upper				Speed brakes, lower			
-10.10	1.5491	-0.0663	.7507	.7182	-0.0233	.3150	-10.10
-8.06	1.5086	-0.0553	.7321	.9901	-0.0509	.4745	-8.06
-6.00	1.4492	-0.0389	.7074	1.1963	-0.1133	.6158	-6.00
-3.96	1.3995	-0.0390	.6882	1.2754	-0.1471	.6657	-3.96
-1.90	1.3599	-0.0281	.6773	1.3066	-0.1526	.6772	-1.90
.17	1.3521	-0.0447	.6847	1.3293	-0.1580	.6823	.17
2.22	1.3602	-0.0558	.6958	1.3627	-0.1575	.6903	2.22
4.27	1.3799	-0.0727	.7314	1.4309	-0.1628	.7212	4.27
6.35	1.2375	-0.0232	.6648	1.4984	-0.1624	.7517	6.35
8.40	1.0662	.0047	.5523	1.5751	-0.1733	.7883	8.40
10.47	.8512	.0218	.4060	1.6584	-0.1784	.8297	10.47
12.53	.6756	.0274	.3181	1.7438	-0.1838	.8721	12.53
14.60	.4592	.0163	.2262	1.8323	-0.1890	.9168	14.60
16.66	.2407	.0102	.1678	1.9250	-0.1942	.9625	16.66
18.77	.1812	.0103	.1305	2.0267	-0.2052	1.0180	18.77
20.87	.1535	.0160	.1077	2.1321	-0.2103	1.0703	20.87

TABLE XI. - SURFACE LOADING CHARACTERISTICS WITH THE HORIZONTAL TAIL

PANELS UNDEFLECTED AND THE VERTICAL TAILS DEFLECTED -7.5°

FOR CONFIGURATION, WFHVV; $\beta = -6.1^{\circ}$ - Concluded(f) $M = 4.65$, $R = 2.28 \times 10^6$, $\delta_s = 35^{\circ}$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg	
	Wing, left			Wing, right				
-9.46	-0.2304	.0171	-0.0797	.0030	.0092	-0.0662	-9.46	
-7.33	-0.1578	.0115	-0.0634	-0.1288	.0129	-0.0439	-7.33	
-5.34	-0.1554	.0086	-0.0411	-0.1117	.0101	-0.0287	-5.34	
-3.32	-0.1314	.0058	-0.0227	-0.0714	.0068	-0.0171	-3.32	
-1.28	-0.1075	.0028	-0.0036	-0.0331	.0036	-0.0028	-1.28	
.75	-0.0453	.0000	.0092	-0.0118	-0.0024	.0120	.75	
2.76	-0.0201	.0030	.0255	.0263	.0088	.0235	2.76	
4.84	.0664	.0030	.0347	.0475	-0.1113	.0411	4.84	
6.88	.1803	.0028	.0423	-0.0040	.0123	.0638	6.88	
8.90	.2535	-.0004	.0586	.0373	.0155	.0782	8.90	
10.92	.3059	-.0064	.0782	.0564	.0181	.0953	10.92	
12.95	.3357	-.0094	.1013	.0536	.0203	.1160	12.95	
15.01	.4826	-.0099	.1136	.1284	-.0269	.1356	15.01	
17.08	.5275	-.0191	.1471	.1592	-.0290	.1635	17.08	
19.12	.5656	-.0219	.1766	.1923	-.0376	.1914	19.12	
21.17	.6340	-.0253	.2085	.1799	-.0420	.2265	21.17	
	Horizontal tail, left				Horizontal tail, right			
-9.46	-0.2507	.0224	-0.0542	-0.1367	.0199	-0.0435	-9.46	
-7.33	-0.2004	.0141	-0.0400	-0.1212	.0161	-0.0312	-7.33	
-5.34	-0.1513	.0079	-0.0261	-0.0493	.0101	-0.0200	-5.34	
-3.32	-0.1190	.0081	-0.0194	-0.0337	.0061	-0.0097	-3.32	
-1.28	-0.1012	.0059	-0.0106	-0.0082	.0020	.0011	-1.28	
.75	-0.0798	.0018	-0.0001	.0232	-0.0059	.0163	.75	
2.76	-0.0353	-.0002	.0126	.0551	-0.0140	.0315	2.76	
4.84	-.0086	-.0021	.0316	.0788	-.0200	.0443	4.84	
6.88	.0058	-.0129	.0472	.1038	-.0240	.0551	6.88	
8.90	.0291	-.0257	.0618	.1483	-.0279	.0670	8.90	
10.92	.0617	-.0364	.0769	.1804	-.0362	.0802	10.92	
12.95	.0960	-.0490	.0973	.2020	-.0440	.1005	12.95	
15.01	.1267	-.0595	.1164	.2403	-.0561	.1218	15.01	
17.08	.1729	-.0744	.1429	.3056	-.0703	.1486	17.08	
19.12	.2130	-.0871	.1665	.3820	-.0824	.1734	19.12	
21.17	.2555	-.1041	.1955	.4441	-.1006	.2079	21.17	
	Vertical tail, upper				Vertical tail, lower			
-9.46	-0.0347	-.0029	-0.0167	.0841	.0000	.0000	-9.46	
-7.33	-0.0131	-.0043	-0.0126	.0839	.0000	.0000	-7.33	
-5.34	-0.0171	-.0049	-0.0023	.0841	.0000	.0000	-5.34	
-3.32	-0.0090	-.0049	-0.0016	.0754	-.0007	-.0017	-3.32	
-1.28	-0.0020	-.0047	.0016	.0869	-.0028	-.0043	-1.28	
.75	.0068	-.0041	-.0002	.0899	-.0053	-.0082	.75	
2.76	.0120	-.0034	.0023	.0813	-.0063	-.0100	2.76	
4.84	.0137	-.0028	.0032	.0768	-.0070	-.0137	4.84	
6.88	.0081	-.0020	.0067	.0894	-.0063	-.0284	6.88	
8.90	.0081	-.0026	.0067	.0533	-.0057	-.0205	8.90	
10.92	.0061	-.0007	.0060	.0446	-.0066	-.0219	10.92	
12.95	.0048	-.0008	.0085	.0315	-.0083	-.0327	12.95	
15.01	.0087	-.0013	.0101	.0287	-.0081	-.0398	15.01	
17.08	.0040	-.0005	.0110	.0212	-.0107	-.0361	17.08	
19.12	-.0014	-.0008	.0085	.0243	-.0137	-.0350	19.12	
21.17	-.0003	-.0008	.0060	.0316	-.0166	-.0307	21.17	
	Speed brakes, upper				Speed brakes, lower			
-9.46	1.9196	-.2027	.9766	.4105	-.0137	.2185	-9.46	
-7.33	1.7890	-.2101	.9142	.6338	-.0034	.3128	-7.33	
-5.34	1.6900	-.1802	.8661	.8813	-.0415	.4338	-5.34	
-3.32	1.5967	-.1654	.8268	1.0585	-.0795	.5382	-3.32	
-1.28	1.4502	-.1426	.7334	1.2304	-.1096	.6313	-1.28	
.75	1.2973	-.1277	.6606	1.4142	-.1316	.7196	.75	
2.76	1.1225	-.1053	.5778	1.5864	-.1540	.8102	2.76	
4.84	.9858	-.0904	.5137	1.7697	-.1763	.9059	4.84	
6.88	.8108	-.0377	.4058	1.9361	-.1986	.9901	6.88	
8.90	.5122	-.0226	.2501	2.1266	-.2289	1.0956	8.90	
10.92	.3915	-.0530	.2345	2.4275	-.2356	1.1657	10.92	
12.95	.2438	-.0306	.1604	2.4371	-.2500	1.2386	12.95	
15.01	.1777	-.0005	.1175	2.6716	-.2644	1.3612	15.01	
17.08	.0957	-.0296	.0611	2.9414	-.2860	1.4923	17.08	
19.12	.0576	-.0445	.0512	3.1608	-.2998	1.5864	19.12	
21.17	.0246	-.0447	.0222	3.3303	-.3134	1.6364	21.17	

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TABLE XII. - SURFACE LOADING CHARACTERISTICS AT VARIOUS UNEQUAL
DEFLECTIONS OF THE HORIZONTAL TAIL PANELS WITH THE VERTICAL

TAIL UNDEFLECTED FOR CONFIGURATION, WFHVv; $\beta = 0^\circ$ (a) $M = 2.29$, $R = 1.87 \times 10^6$, $\delta_{H,L} = -10^\circ$, $\delta_{H,R} = -30^\circ$, $\delta_S = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
	Wing, left			Wing, right			
-10.25	-0.3757	0.0330	-0.1599	-0.3349	0.0322	-0.1495	-10.25
-8.10	-0.3761	0.0241	-0.1240	-0.2856	0.0288	-0.1204	-8.10
-5.98	-0.3488	0.0189	-0.0893	-0.1516	0.0179	-0.0905	-5.98
-3.97	-0.2319	0.0121	-0.0574	-0.0523	0.0095	-0.0614	-3.97
-1.85	-0.1416	0.0070	-0.0231	-0.056	0.0046	-0.0227	-1.85
.26	-0.0429	0.0054	.0096	-0.0886	0.0028	0.0100	.26
2.31	-0.0040	0.0018	0.0490	0.1302	0.0016	0.0490	2.31
4.41	.0146	-0.0056	0.0734	0.1960	-0.0042	0.0801	4.41
6.50	.0275	-0.0133	0.1053	0.2367	-0.0147	0.1148	6.50
8.57	.02762	-0.0189	0.1396	0.2571	-0.0187	0.1479	8.57
10.68	.02908	-0.0281	0.1746	0.3574	-0.0277	0.1810	10.68
12.78	.03616	-0.0356	0.2030	0.4065	-0.0358	0.2113	12.78
14.86	.03885	-0.0450	0.2349	0.4567	-0.0448	0.2416	14.86
17.00	.04487	-0.0527	0.2672	0.5219	-0.0541	0.2719	17.00
19.08	.04743	-0.0623	0.2979	0.5824	-0.0635	0.2979	19.08
21.17	.5309	-0.0718	0.3266	0.6729	-0.0772	0.3218	21.17
	Horizontal tail, left			Horizontal tail, right			
-10.25	-0.4872	0.1017	-0.1950	-0.9267	0.2599	-0.3914	-10.25
-8.10	-0.4269	0.0952	-0.1749	-0.8271	0.2201	-0.3666	-8.10
-5.98	-0.3663	0.0810	-0.1559	-0.8178	0.1942	-0.3704	-5.98
-3.97	-0.3547	0.0702	-0.1521	-0.8136	0.1812	-0.3677	-3.97
-1.85	-0.3206	0.0624	-0.1421	-0.8084	0.1722	-0.3572	-1.85
.26	-0.2732	0.0534	-0.1227	-0.7657	0.1647	-0.3475	.26
2.31	-0.2192	0.0415	-0.0967	-0.7144	0.1545	-0.3280	2.31
4.41	-0.1633	0.0272	-0.0639	-0.6391	0.1370	-0.2989	4.41
6.50	-0.0856	0.0129	-0.0260	-0.5539	0.1170	-0.2632	6.50
8.57	-0.0198	-0.0040	0.0115	-0.4691	0.0967	-0.2307	8.57
10.68	.0449	-0.0224	0.0479	-0.3870	0.0716	-0.1923	10.68
12.78	.0854	-0.0396	0.0783	-0.3114	0.0450	-0.1598	12.78
14.86	.1327	-0.0555	0.1032	-0.2942	0.0286	-0.1380	14.86
17.00	.1886	-0.0778	0.1376	-0.2429	0.0006	-0.1026	17.00
19.08	.2433	-0.0923	0.1600	-0.2194	-0.0161	-0.0840	19.08
21.17	.2828	-0.1041	0.1882	-0.2038	-0.0274	-0.0706	21.17
	Vertical tail, upper			Vertical tail, lower			
-10.25	.0031	-0.0010	-0.0044	.0098	0.0057	-0.0134	-10.25
-8.10	.0003	-0.0010	-0.0037	.0058	0.0079	-0.0088	-8.10
-5.98	.0014	-0.0010	-0.0032	.0058	0.0079	-0.0088	-5.98
-3.97	.0023	0.0000	-0.0028	.0016	0.0079	-0.0054	-3.97
-1.85	.0005	0.0008	-0.0016	.0049	0.0079	-0.0063	-1.85
.26	.0005	0.0013	-0.0016	.0007	0.0079	-0.0028	.26
2.31	.0033	0.0008	-0.0021	.0023	0.0074	-0.0020	2.31
4.41	.0034	0.0000	-0.0021	.0044	0.0074	-0.0037	4.41
6.50	.0000	0.0005	0.0000	-0.0010	.0074	-0.0011	6.50
8.57	-.0002	0.0008	0.0000	-0.0003	.0074	-0.0037	8.57
10.68	-.0002	0.0013	0.0000	.0031	.0074	-0.0046	10.68
12.78	-.0051	0.0008	0.0007	.0073	.0074	-0.0080	12.78
14.86	.0005	0.0008	-0.0016	.0059	.0074	-0.0088	14.86
17.00	-.0023	0.0013	-0.0009	.0052	.0074	-0.0063	17.00
19.08	-.0020	0.0034	-0.0025	.0000	.0068	-0.0037	19.08
21.17	-.0096	.0064	-0.0041	.0054	.0068	-0.0063	21.17

TABLE XII. - SURFACE LOADING CHARACTERISTICS AT VARIOUS UNEQUAL
 DEFLECTIONS OF THE HORIZONTAL TAIL PANELS WITH THE VERTICAL
 TAIL UNDEFLECTED FOR CONFIGURATION, WFHVv; $\beta = 0^\circ$ - Continued
 (b) $M = 2.98$, $R = 1.87 \times 10^6$, $\delta_{H,L} = -10^\circ$, $\delta_{H,R} = -30^\circ$, $\delta_S = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg	
	Wing, left				Wing, right			
-10.12	-.2810	.0269	-.1168	-.2605	.0318	-.1077	-10.12	
-8.02	-.2339	.0209	-.0945	-.3073	.0310	-.0801	-8.02	
-5.97	-.1966	.0145	-.0654	-.2218	.0261	-.0558	-5.97	
-3.92	-.1635	.0103	-.0391	-.1939	.0199	-.0323	-3.92	
-1.83	-.0776	.0064	-.0159	-.0712	.0123	-.0100	-1.83	
.21	-.0148	.0042	.0060	-.0301	.0101	.0136	.21	
2.26	.0674	.0022	.0247	-.0010	.0062	.0371	2.26	
4.33	.1847	-.0024	.0415	.0594	.0016	.0578	4.33	
6.39	.2541	-.0048	.0658	.0893	.0000	.0849	6.39	
8.44	.2722	-.0092	.0945	.1021	-.0010	.1144	8.44	
10.52	.3267	-.0159	.1208	.1370	-.0048	.1459	10.52	
12.58	.3299	-.0245	.1519	.1857	-.0111	.1723	12.58	
14.66	.3845	-.0310	.1782	.2339	-.0175	.1982	14.66	
16.77	.4302	-.0400	.2121	.3456	-.0294	.2297	16.77	
18.82	.4523	-.0446	.2436	.3089	-.0340	.2636	18.82	
20.95	.5680	-.0563	.2703	.4687	-.0493	.2875	20.95	
	Horizontal tail, left				Horizontal tail, right			
-10.12	-.2463	.0884	-.1795	-.7233	.2276	-.3513	-10.12	
-8.02	-.2359	.0823	-.1601	-.7074	.2219	-.3406	-8.02	
-5.97	-.1898	.0747	-.1413	-.7283	.1884	-.3327	-5.97	
-3.92	-.1880	.0604	-.1279	-.7056	.1686	-.3256	-3.92	
-1.83	-.1473	.0529	-.1234	-.6768	.1490	-.3075	-1.83	
.21	-.1425	.0435	-.1002	-.6297	.1353	-.2958	.21	
2.26	-.1076	.0327	-.0725	-.5832	.1251	-.2779	2.26	
4.33	-.0531	.0217	-.0423	-.4906	.1087	-.2490	4.33	
6.39	-.0044	.0078	-.0082	-.3952	.0864	-.2142	6.39	
8.44	.0030	-.0064	.0195	-.3435	.0609	-.1832	8.44	
10.52	.0202	-.0188	.0373	-.3088	.0398	-.1604	10.52	
12.58	.0307	-.0297	.0516	-.2693	.0159	-.1305	12.58	
14.66	.0545	-.0407	.0658	-.2665	-.0010	-.1259	14.66	
16.77	.0900	-.0547	.0853	-.2752	-.0130	-.1155	16.77	
18.82	.1192	-.0641	.1026	-.2832	-.0147	-.1156	18.82	
20.95	.1483	-.0766	.1227	-.2778	-.0176	-.1165	20.95	
	Vertical tail, upper				Vertical tail, lower			
-10.12	-.0086	.0005	-.0018	.0049	.0013	-.0003	-10.12	
-8.02	-.0073	.0005	-.0011	.0024	.0013	.0023	-8.02	
-5.97	-.0072	.0000	-.0011	-.0016	.0013	.0031	-5.97	
-3.92	-.0039	.0000	-.0018	-.0065	.0013	.0074	-3.92	
-1.83	-.0037	-.0005	-.0018	-.0065	.0013	.0074	-1.83	
.21	-.0025	-.0005	-.0011	-.0040	.0013	.0051	.21	
2.26	-.0025	-.0005	-.0011	-.0040	.0013	.0051	2.26	
4.33	.0009	-.0010	-.0018	-.0016	.0013	.0031	4.33	
6.39	.0008	-.0005	-.0018	.0016	.0013	.0011	6.39	
8.44	.0009	-.0010	-.0018	.0056	.0013	-.0009	8.44	
10.52	-.0058	-.0005	.0007	.0096	.0013	-.0037	10.52	
12.58	-.0058	-.0005	.0007	.0096	.0013	-.0028	12.58	
14.66	-.0065	-.0005	.0014	.0093	.0018	-.0028	14.66	
16.77	.0000	-.0000	.0000	.0156	.0018	-.0037	16.77	
18.82	-.0050	-.0020	.0000	.0080	.0018	-.0048	18.82	
20.95	-.0050	-.0020	.0000	.0156	.0018	-.0037	20.95	

REF ID: A6512
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115

TABLE XII. - SURFACE LOADING CHARACTERISTICS AT VARIOUS UNEQUAL

DEFLECTIONS OF THE HORIZONTAL TAIL PANELS WITH THE VERTICAL

TAIL UNDEFLECTED FOR CONFIGURATION, WFHVV; $\beta = 0^\circ$ - Continued(c) $M = 4.65$, $R = 2.28 \times 10^6$, $\delta_{H,L} = -10^\circ$, $\delta_{H,R} = -30^\circ$, $\delta_s = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-9.45	-0.3002	.0111	-.0558	.0237	.0056	-.0718	-9.45
-7.37	-.2321	.0113	-.0415	-.1061	.0121	-.0471	-7.37
-5.31	-.2321	.0084	-.0215	-.0636	.0090	-.0331	-5.31
-3.30	-.2084	.0056	-.0028	.0006	.0020	-.0227	-3.30
-1.26	-.1859	.0028	.0128	.1256	-.0092	-.0159	-1.26
.77	-.0662	.0000	.0148	.0862	-.0137	.0048	.77
2.80	-.0185	-.0030	.0255	.1298	-.0201	.0187	2.80
4.85	.0433	.0000	.0359	.1001	-.0155	.0407	4.85
6.90	.0929	-.0058	.0534	.1414	-.0125	.0570	6.90
8.91	.0929	-.0088	.0734	.1396	-.0113	.0797	8.91
10.98	.1663	-.0147	.0893	.1877	-.0145	.1001	10.98
12.98	.2200	-.0177	.1112	.2126	-.0201	.1216	12.98
15.07	.2992	-.0239	.1316	.2405	-.0219	.1475	15.07
17.09	.2930	-.0267	.1675	.2489	-.0237	.1790	17.09
19.18	.4029	-.0360	.1906	.3069	-.0294	.2081	19.18
21.26	.5150	-.0422	.2157	.4402	-.0398	.2357	21.26
Horizontal tail, left				Horizontal tail, right			
-9.45	-.3601	.0688	-.1281	-.6553	.2188	-.3096	-9.45
-7.37	-.3118	.0647	-.1141	-.5982	.2047	-.2964	-7.37
-5.31	-.2756	.0586	-.0961	-.5649	.1696	-.2767	-5.31
-3.30	-.2555	.0458	-.0832	-.5387	.1388	-.2482	-3.30
-1.26	-.2393	.0309	-.0674	-.4908	.1101	-.2285	-1.26
.77	-.1856	.0270	-.0503	-.4439	.0936	-.2210	.77
2.80	-.1493	.0142	-.0339	-.4086	.0752	-.2065	2.80
4.85	-.1016	-.0006	-.0172	-.3707	.0608	-.1941	4.85
6.90	-.0990	-.0047	-.0116	-.3515	.0319	-.1755	6.90
8.91	-.0858	-.0047	-.0098	-.3649	.0113	-.1651	8.91
10.98	-.0764	-.0067	-.0054	-.3916	-.0011	-.1649	10.98
12.98	-.0643	-.0088	-.0007	-.4219	-.0055	-.1733	12.98
15.07	-.0561	-.0131	.0090	-.4503	-.0079	-.1853	15.07
17.09	-.0186	-.0235	.0214	-.5080	-.0102	-.1949	17.09
19.18	-.0100	-.0343	.0340	-.5273	-.0123	-.2050	19.18
21.26	.0226	-.0449	.0491	-.5573	-.0167	-.2130	21.26
Vertical tail, upper				Vertical tail, lower			
-9.45	-.0002	.0007	.0000	.0775	.0011	-.0210	-9.45
-7.37	-.0002	.0007	.0000	.0720	.0011	-.0182	-7.37
-5.31	-.0002	.0007	.0000	.0635	.0013	-.0171	-5.31
-3.30	.0078	.0007	-.0009	.0491	.0022	-.0131	-3.30
-1.26	.0078	.0007	-.0009	.0577	.0022	-.0142	-1.26
.77	.0078	.0007	-.0009	.0577	.0022	-.0142	.77
2.80	.0079	.0000	-.0009	.0323	.0024	-.0114	2.80
4.85	.0079	.0000	-.0009	.0323	.0024	-.0114	4.85
6.90	.0079	.0000	-.0009	.0323	.0024	-.0114	6.90
8.91	.0090	.0000	-.0018	.0323	.0024	-.0114	8.91
10.98	.0090	.0000	-.0018	.0631	.0022	-.0168	10.98
12.98	.0090	.0000	-.0018	.0546	.0022	-.0156	12.98
15.07	.0061	.0007	.0000	.0546	.0022	-.0156	15.07
17.09	.0124	.0020	-.0025	.0285	.0024	-.0145	17.09
19.18	.0031	.0041	-.0044	.0318	.0024	-.0171	19.18
21.26	.0058	.0047	-.0060	.0565	.0024	-.0145	21.26

TABLE XII. - SURFACE LOADING CHARACTERISTICS AT VARIOUS UNEQUAL
DEFLECTIONS OF THE HORIZONTAL TAIL PANELS WITH THE VERTICAL
TAIL UNDEFLECTED FOR CONFIGURATION, WFHVV; $\beta = 0^\circ$ - Continued
(d) $M = 2.29$, $R = 1.87 \times 10^6$, $\delta_{H,L} = 10^\circ$, $\delta_{H,R} = -10^\circ$, $\delta_s = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg	
	Wing, left			Wing, right				
-10.27	-0.3341	.0402	-0.1627	-0.2415	.0334	-0.1535	-10.27	
-8.16	-0.3917	.0328	-0.1224	-0.4412	.0370	-0.1109	-8.16	
-6.04	-0.3490	.0241	-0.0885	-0.3061	.0265	-0.0809	-6.04	
-4.01	-0.2200	.0193	-0.0594	-0.1607	.0179	-0.0542	-4.01	
-1.92	-0.1131	.0125	-0.0247	-0.0397	.0094	-0.0191	-1.92	
.17	-0.0271	.0090	-0.0084	-0.0183	.0105	.0167	.17	
2.27	.0371	.0072	.0455	.0680	.0068	.0522	2.27	
4.36	.0420	.0002	.0758	.0756	.0046	.0885	4.36	
6.45	.2912	.0080	.1029	.1751	-0.0072	.1188	6.45	
8.51	.3359	.0155	.1364	.1994	-0.0135	.1547	8.51	
10.61	.3347	.0227	.1723	.2968	-0.0215	.1854	10.61	
12.70	.4065	.0322	.2006	.3319	-0.0283	.2161	12.70	
14.81	.4328	.0398	.2325	.3823	-0.0374	.2464	14.81	
16.91	.4627	.0474	.2668	.4316	-0.0466	.2763	16.91	
19.01	.5050	.0569	.2975	.4806	-0.0575	.3050	19.01	
21.13	.5963	.0670	.3270	.6304	-0.0706	.3278	21.13	
	Horizontal tail, left				Horizontal tail, right			
-10.27	-0.0417	-0.0147	.0200	-0.3946	.1061	-0.2003	-10.27	
-8.16	.0319	.0290	.0523	-0.3186	.0974	-0.1825	-8.16	
-6.04	.0697	.0383	.0767	-0.2764	.0823	-0.1626	-6.04	
-4.01	.0930	.0488	.0964	-0.2677	.0682	-0.1540	-4.01	
-1.92	.1303	.0566	.1208	-0.2431	.0621	-0.1444	-1.92	
.17	.1740	.0683	.1448	-0.1782	.0546	-0.1269	.17	
2.27	.2233	.0776	.1687	-0.1291	.0423	-0.1018	2.27	
4.36	.2926	.0919	.1960	-0.0764	.0273	-0.0693	4.36	
6.45	.3481	.1077	.2219	-0.0253	.0111	-0.0308	6.45	
8.51	.3962	.1274	.2526	.0519	-0.025	.0028	8.51	
10.61	.4587	.1445	.2786	.1150	-0.0185	.0402	10.61	
12.70	.5186	.1617	.3069	.1802	-0.0336	.0702	12.70	
14.81	.5828	.1747	.3349	.2465	-0.0473	.0950	14.81	
16.91	.6515	.1933	.3675	.3247	-0.0701	.1262	16.91	
19.01	.7357	.2088	.3960	.3840	-0.0851	.1532	19.01	
21.13	.7832	.2234	.4279	.4225	-0.0949	.1787	21.13	
	Vertical tail, upper				Vertical tail, lower			
-10.27	.0081	.0003	.0076	-0.0003	.0096	.0000	-10.27	
-8.16	.0092	.0003	.0069	-0.0178	.0007	.0051	-8.16	
-6.04	.0075	.0003	.0060	-0.0124	.0007	.0043	-6.04	
-4.01	.0075	.0003	.0060	-0.0124	.0007	.0043	-4.01	
-1.92	.0084	.0008	.0055	-0.0065	.0006	.0051	-1.92	
.17	.0084	.0008	.0055	-0.0117	.0002	.0077	.17	
2.27	.0084	.0008	.0055	-0.0084	.0000	.0068	2.27	
4.36	.0084	.0011	.0053	-0.0117	.0002	.0077	4.36	
6.45	.0093	.0016	.0048	-0.0150	.0002	.0082	6.45	
8.51	.0076	.0025	.0037	-0.0262	.0002	.0074	8.51	
10.61	.0092	.0029	.0048	-0.0208	.0002	.0065	10.61	
12.70	.0076	.0025	.0037	-0.0122	.0002	.0040	12.70	
14.81	.0065	.0025	.0044	-0.0122	.0002	.0040	14.81	
16.91	.0082	.0025	.0053	-0.0262	.0002	.0074	16.91	
19.01	.0053	.0029	.0048	-0.0229	.0002	.0057	19.01	
21.13	.0058	.0046	.0064	-0.0033	.0000	.0017	21.13	

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117

TABLE XII. - SURFACE LOADING CHARACTERISTICS AT VARIOUS UNEQUAL
 DEFLECTIONS OF THE HORIZONTAL TAIL PANELS WITH THE VERTICAL
 TAIL UNDEFLECTED FOR CONFIGURATION, WFHV; $\beta = 0^\circ$ - Continued
 (e) $M = 2.98$, $R = 1.87 \times 10^6$, $\delta_{H,L} = 10^\circ$, $\delta_{H,R} = -10^\circ$, $\delta_S = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-10.16	-0.2653	.0312	-0.1176	-0.3885	.0362	-0.0997	-10.16
-8.03	-0.2022	.0253	-0.0977	-0.2876	.0308	-0.0797	-8.03
-5.98	-0.1966	.0209	-0.0638	-0.3111	.0304	-0.0482	-5.98
-3.97	-0.1811	.0167	-0.0367	-0.2840	.0265	-0.0243	-3.97
-1.88	-0.0598	.0127	-0.0152	-0.1239	.0155	-0.0040	-1.88
.16	.0054	.0107	.0064	-0.0690	.0133	.0171	.16
2.24	.0854	.0086	.0255	-0.0515	.0074	.0431	2.24
4.31	.1510	.0042	.0467	-0.0273	.0058	.0654	4.31
6.35	.2363	.0018	.0686	.0365	.0058	.0909	6.35
8.42	.2728	-.0048	.0961	.0323	.0028	.1212	8.42
10.48	.3458	-.0115	.1216	.1021	-.0018	.1499	10.48
12.54	.3482	-.0181	.1527	.1338	-.0056	.1782	12.54
14.61	.4013	-.0247	.1778	.2190	-.0149	.2026	14.61
16.70	.4286	-.0334	.2125	.2571	-.0231	.2361	16.70
18.77	.4878	-.0404	.2420	.3113	-.0316	.2668	18.77
20.86	.5505	-.0495	.2735	.4154	-.0414	.2923	20.86
Horizontal tail, left				Horizontal tail, right			
-10.16	-0.0475	-.0002	-.0098	-0.2996	.0888	-0.1785	-10.16
-8.03	.0162	-.0077	.0108	-0.2329	.0845	-0.1669	-8.03
-5.98	.0741	-.0185	.0350	-0.1884	.0803	-0.1469	-5.98
-3.97	.1184	-.0294	.0601	-0.1709	.0651	-0.1325	-3.97
-1.88	.1437	-.0404	.0862	-0.1507	.0531	-0.1248	-1.88
.16	.1860	-.0512	.1099	-0.1008	.0457	-0.1068	.16
2.24	.2409	-.0604	.1331	-0.0697	.0325	-0.0784	2.24
4.31	.2868	-.0713	.1550	-0.0168	.0207	-0.0489	4.31
6.35	.3417	-.0852	.1813	.0134	.0074	-0.0150	6.35
8.42	.4006	-.0991	.2057	.0661	-.0060	.0089	8.42
10.48	.4561	-.1132	.2320	.0992	-.0177	.0280	10.48
12.54	.5273	-.1286	.2590	.1357	-.0253	.0401	12.54
14.61	.5820	-.1410	.2854	.1711	-.0342	.0535	14.61
16.70	.6403	-.1629	.3230	.2144	-.0417	.0670	16.70
18.77	.7090	-.1833	.3588	.2505	-.0490	.0827	18.77
20.86	.7882	-.2036	.3965	.2920	-.0594	.1006	20.86
Vertical tail, upper				Vertical tail, lower			
-10.16	.0019	.0020	-.0057	-0.0075	-.0053	.0077	-10.16
-8.03	.0053	.0020	-.0064	-0.0140	-.0052	.0105	-8.03
-5.98	.0065	.0015	-.0057	-0.0140	-.0052	.0105	-5.98
-3.97	.0079	.0010	-.0050	-0.0166	-.0052	.0125	-3.97
-1.88	.0079	.0010	-.0050	-0.0168	-.0046	.0128	-1.88
.16	.0079	.0010	-.0050	-0.0184	-.0044	.0117	.16
2.24	.0079	.0010	-.0050	-0.0184	-.0044	.0117	2.24
4.31	.0061	.0005	-.0039	-0.0224	-.0044	.0125	4.31
6.35	.0093	.0005	-.0046	-0.0201	-.0037	.0105	6.35
8.42	.0093	.0005	-.0046	-0.0136	-.0039	.0077	8.42
10.48	.0129	.0005	-.0032	-0.0185	-.0039	.0057	10.48
12.54	.0129	.0005	-.0032	-0.0136	-.0039	.0077	12.54
14.61	.0129	.0005	-.0032	-0.0096	-.0039	.0065	14.61
16.70	.0129	.0005	-.0032	-0.0096	-.0039	.0065	16.70
18.77	.0126	.0020	-.0032	-0.0072	-.0039	.0046	18.77
20.86	.0126	.0025	-.0032	-0.0072	-.0039	.0046	20.86

CONFIDENTIAL

118

TABLE XII.- SURFACE LOADING CHARACTERISTICS AT VARIOUS UNEQUAL
DEFLECTIONS OF THE HORIZONTAL TAIL PANELS WITH THE VERTICAL

TAIL UNDEFLECTED FOR CONFIGURATION, WFFHVV; $\beta = 0^\circ$ - Continued(f) $M = 4.65$, $R = 2.28 \times 10^6$, $\delta_{H,L} = 10^\circ$, $\delta_{H,R} = -10^\circ$, $\delta_S = 0^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg	
	Wing, left				Wing, right			
-9.42	-0.3002	.0111	-0.0558	-0.0269	.0125	-0.0690	-9.42	
-7.35	-0.2543	.0141	-0.0383	-0.0830	.0179	-0.0482	-7.35	
-5.30	-0.2575	.0141	-0.0203	-0.0648	.0121	-0.0331	-5.30	
-3.31	-0.2076	.0026	-0.0028	.0491	.0010	-0.0251	-3.31	
-1.25	-0.1859	.0028	.0128	.1256	-0.0092	-0.0159	-1.25	
.76	-0.0692	.0000	.0128	.1113	-0.0139	.0036	.76	
2.80	-0.0185	-0.0030	.0255	.1284	-0.0169	.0187	2.80	
4.81	.0870	.0000	.0291	.1464	-0.0103	.0387	4.81	
6.88	.0903	-0.0058	.0510	.1645	-0.0099	.0558	6.88	
8.91	.0929	-0.0088	.0734	.1847	-0.0094	.0754	8.91	
10.94	.1663	-0.0147	.0893	.2086	-0.0119	.0969	10.94	
13.00	.1956	-0.0177	.1124	.2114	-0.0171	.1216	13.00	
15.04	.2529	-0.0237	.1360	.2637	-0.0201	.1463	15.04	
17.06	.2938	-0.0296	.1671	.2730	-0.0243	.1778	17.06	
19.14	.3540	-0.0358	.1930	.3057	-0.0265	.2081	19.14	
21.22	.4902	-0.0424	.2169	.4388	-0.0366	.2357	21.22	
	Horizontal tail, left				Horizontal tail, right			
-9.42	.0092	.0001	-0.0108	-0.2928	.0621	-0.1246	-9.42	
-7.35	.0441	-0.0041	-0.0023	-0.2583	.0583	-0.1115	-7.35	
-5.30	.0633	-0.0103	.0106	-0.2273	.0503	-0.0908	-5.30	
-3.31	.0978	-0.0188	.0268	-0.1882	.0381	-0.0788	-3.31	
-1.25	.1283	-0.0230	.0470	-0.1589	.0258	-0.0634	-1.25	
.76	.1796	-0.0335	.0666	-0.1066	.0198	-0.0491	.76	
2.80	.2154	-0.0440	.0888	-0.0725	.0160	-0.0344	2.80	
4.81	.2371	-0.0567	.1129	-0.0435	.0038	-0.0170	4.81	
6.88	.2563	-0.0693	.1409	-0.0301	-0.0044	-0.0100	6.88	
8.91	.2728	-0.0865	.1718	-0.0329	-0.0084	-0.0062	8.91	
10.94	.3417	-0.1034	.2045	-0.0251	-0.0105	-0.0019	10.94	
13.00	.3752	-0.1225	.2443	-0.0122	-0.0145	.0049	13.00	
15.04	.4329	-0.1414	.2859	-0.0126	-0.0186	.0142	15.04	
17.06	.5231	-0.1625	.3290	-0.0220	-0.0224	.0234	17.06	
19.14	.6154	-0.1791	.3643	-0.0457	-0.0284	.0362	19.14	
21.22	.6740	-0.1961	.4019	-0.0982	-0.0345	.0485	21.22	
	Vertical tail, upper				Vertical tail, lower			
-9.42	.0008	.0013	-0.0025	.0762	.0092	-0.0188	-9.42	
-7.35	.0008	.0013	-0.0025	.0622	.0094	-0.0148	-7.35	
-5.30	.0053	.0013	-0.0034	.0622	.0094	-0.0148	-5.30	
-3.31	.0053	.0013	-0.0034	.0654	.0094	-0.0134	-3.31	
-1.25	.0053	.0013	-0.0034	.0708	.0092	-0.0159	-1.25	
.76	.0176	.0007	-0.0044	.0708	.0092	-0.0159	.76	
2.80	.0176	.0007	-0.0044	.0659	.0085	-0.0134	2.80	
4.81	.0078	.0007	-0.0009	.0526	.0087	-0.0043	4.81	
6.88	.0079	.0000	-0.0009	.0460	.0087	-0.0040	6.88	
8.91	.0128	.0000	-0.0028	.0311	.0070	-0.0054	8.91	
10.94	.0128	.0000	-0.0028	.0453	.0068	.0000	10.94	
13.00	.0090	.0000	-0.0018	.0311	.0070	-0.0054	13.00	
15.04	.0090	.0000	-0.0018	.0511	.0068	-0.0063	15.04	
17.06	.0089	.0007	-0.0018	.0638	.0066	-0.0151	17.06	
19.14	.0090	.0000	-0.0018	.0638	.0066	-0.0151	19.14	
21.22	.0107	.0000	-0.0009	.0642	.0057	-0.0151	21.22	

L-350

DECLASSIFIED

119

TABLE XII. - SURFACE LOADING CHARACTERISTICS AT VARIOUS UNEQUAL
DEFLECTIONS OF THE HORIZONTAL TAIL PANELS WITH THE VERTICAL

TAIL UNDEFLECTED FOR CONFIGURATION, WFHVv; $\beta = 0^\circ$ - Continued

(g) $M = 2.29$, $R = 1.87 \times 10^6$, $\delta_{H,L} = 10^\circ$, $\delta_{H,R} = -10^\circ$, $\delta_S = 35^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-10.28	-3004	.0388	-1731	-4196	.0406	-1491	-10.28
-8.12	-3255	.0296	-1316	-3542	.0350	-1212	-8.12
-6.11	-3263	.0225	-0957	-2992	.0279	-0885	-6.11
-3.98	-2240	.0193	-0622	-2112	.0203	-0546	-3.98
-1.91	-1161	.0107	-0275	-1211	.0107	-0195	-1.91
.18	-0136	.0072	.0052	-0197	.0068	.0140	.18
2.25	.0499	.0036	.0419	.0646	.0048	.0482	2.25
4.33	.1683	-0.020	.0706	.1005	.0040	.0821	4.33
6.44	.3321	-0.099	.0953	.2134	-0.070	.1105	6.44
8.53	.3650	-0.173	.1324	.2100	-0.0121	.1503	8.53
10.62	.3929	-0.249	.1655	.2629	-0.0191	.1834	10.62
12.71	.4338	-0.344	.1954	.3271	-0.0285	.2113	12.71
14.78	.4741	-0.420	.2249	.4055	-0.0364	.2400	14.78
16.89	.5062	-0.515	.2608	.4591	-0.0474	.2727	16.89
18.98	.5465	-0.573	.2907	.5036	-0.0565	.2975	18.98
21.12	.6039	-0.690	.3194	.5959	-0.0665	.3246	21.12
Horizontal tail, left				Horizontal tail, right			
-10.28	.0287	-0.0239	.0166	-3974	.0874	-1830	-10.28
-8.12	.0812	-0.0316	.0457	-3335	.0863	-1743	-8.12
-6.11	.1427	-0.0421	.0727	-2890	.0736	-1558	-6.11
-3.98	.1667	-0.0539	.0923	-2852	.0620	-1492	-3.98
-1.91	.1910	-0.0618	.1165	-2653	.0570	-1407	-1.91
.18	.2371	-0.0723	.1388	-1930	.0496	-1252	.18
2.25	.2812	-0.0814	.1631	-1499	.0384	-0990	2.25
4.33	.3339	-0.1000	.1935	-0798	.0221	-0678	4.33
6.44	.3962	-0.1196	.2224	-0277	.0073	-0307	6.44
8.53	.4621	-0.1396	.2533	.0325	-0.0050	.0032	8.53
10.62	.5018	-0.1594	.2794	.0998	-0.0161	.0337	10.62
12.71	.5740	-0.1858	.3119	.1824	.0326	.0622	12.71
14.78	.6501	-0.2148	.3525	.2307	.0464	.0874	14.78
16.89	.7690	-0.2532	.4076	.3106	-0.0756	.1238	16.89
18.98	.8539	-0.2742	.4449	.3842	-0.0970	.1524	18.98
21.12	.9223	-0.2968	.4861	.4511	-0.1171	.1840	21.12
Vertical tail, upper				Vertical tail, lower			
-10.28	.0017	-0.0023	-0.0069	.0017	.0028	-0.0040	-10.28
-8.12	.0028	-0.0018	-0.0064	.0003	-0.0006	.0000	-8.12
-6.11	.0011	-0.0018	-0.0053	.0023	.0024	.0009	-6.11
-3.98	.0020	-0.0013	-0.0048	.0002	-0.0022	.0026	-3.98
-1.91	.0031	-0.0013	-0.0044	-0.0019	-0.0022	.0043	-1.91
.18	.0048	-0.0005	-0.0053	-0.0014	-0.0035	.0040	.18
2.25	.0058	.0000	-0.0048	-0.0030	-0.0046	.0057	2.25
4.33	.0058	.0000	-0.0048	-0.0026	-0.0057	.0057	4.33
6.44	.0011	.0008	-0.0032	-0.0010	.0063	.0065	6.44
8.53	.0022	.0013	-0.0028	-0.0026	-0.0057	.0057	8.53
10.62	-.0005	.0043	-0.0037	-0.0026	-0.0057	.0057	10.62
12.71	.0020	.0016	-0.0028	-0.0026	-0.0057	.0057	12.71
14.78	-.0019	.0016	-0.0025	.0010	-0.063	.0048	14.78
16.89	-.0017	.0013	-0.0025	.0028	-0.0092	.0082	16.89
18.98	-.0012	.0016	-0.0041	.0031	-0.0122	.0105	18.98
21.12	-.0012	.0025	-0.0041	.0170	-0.0151	.0097	21.12
Speed brakes, upper				Speed brakes, lower			
-10.28	1.2799	-1.1994	.5996	1.1840	-1.1298	.6621	-10.28
-8.12	1.2357	-1.1995	.5847	1.2079	-1.0961	.6687	-8.12
-6.11	1.2072	-1.2041	.5808	1.1335	-1.0911	.6152	-6.11
-3.98	1.1814	-1.2045	.5767	1.1564	-1.0912	.6273	-3.98
-1.91	1.1642	-1.2045	.5742	1.2137	-1.1101	.6580	-1.91
.18	1.1328	-1.2000	.5682	1.2578	-1.1287	.6717	.18
2.25	1.1108	-1.1953	.5657	1.2932	-1.1328	.6766	2.25
4.33	1.0776	-1.1909	.5551	1.3455	-1.1419	.6908	4.33
6.44	1.0976	-1.2004	.5767	1.4208	-1.1510	.7241	6.44
8.53	1.0803	-1.2004	.5757	1.4642	-1.1505	.7358	8.53
10.62	1.0557	-1.2007	.5805	1.5111	-1.1548	.7515	10.62
12.71	.9640	-1.1820	.5299	1.5615	-1.1591	.7711	12.71
14.78	.8290	-1.1632	.4477	1.6152	-1.1635	.7946	14.78
16.89	.6153	-1.1485	.2895	1.6761	-1.1679	.8198	16.89
18.98	.4412	-1.1668	.1943	1.7299	-1.1722	.8417	18.98
21.12	.2915	-1.1482	.1240	1.0050	-1.1765	.8749	21.12

TABLE XII.- SURFACE LOADING CHARACTERISTICS AT VARIOUS UNEQUAL

DEFLECTIONS OF THE HORIZONTAL TAIL PANELS WITH THE VERTICAL

TAIL UNDEFLECTED FOR CONFIGURATION, WFFHv; $\beta = 0^\circ$ - Continued(h) $M = 2.98$, $R = 1.87 \times 10^6$, $\delta_{H,L} = 10^\circ$, $\delta_{H,R} = -10^\circ$, $\delta_s = 35^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
	Wing, left			Wing, right			
-10.19	-0.2635	.0165	-0.1196	-0.3069	.0125	-0.1045	-10.19
-8.06	-0.2108	.0040	-0.0945	-0.2056	.0094	-0.0825	-8.06
-6.00	-0.1941	.0040	-0.0658	-0.1209	.0020	-0.0598	-6.00
-3.96	-0.0923	.0000	-0.0447	-0.0209	-0.0038	-0.0395	-3.96
-1.90	-0.0375	-0.0086	-0.0179	.0864	-0.0137	-0.0199	-1.90
.17	.0578	-0.0129	-0.0016	.1727	-0.0189	-0.0036	.17
2.22	.1071	-0.0129	.0223	.2154	-0.0233	.0179	2.22
4.27	.2088	-0.0175	.0415	.3119	-0.0308	.0367	4.27
6.33	.2760	-0.0179	.0646	.3598	-0.0350	.0630	6.33
8.40	.3283	-0.0223	.0897	.3915	-0.0364	.0933	8.40
10.47	.3468	-0.0290	.1180	.4396	-0.0428	.1196	10.47
12.55	.3839	-0.0354	.1459	.4358	-0.0460	.1499	12.55
14.62	.4350	-0.0358	.1711	.4489	-0.0529	.1774	14.62
16.68	.4787	-0.0448	.2030	.4683	-0.0609	.2117	16.68
18.77	.5351	-0.0559	.2293	.5032	-0.0668	.2436	18.77
20.83	.5810	-0.0651	.2632	.5742	-0.0760	.2735	20.83
	Horizontal tail, left			Horizontal tail, right			
-10.19	-0.1403	-0.0307	-0.0039	-0.7960	-0.6949	-1.000	-10.19
-8.06	-0.0824	-0.0304	.0113	-0.7543	-0.6951	-0.953	-8.06
-6.00	-0.0321	-0.0413	.0356	-0.7114	-0.6925	-0.824	-6.00
-3.96	.0080	-0.0553	.0609	-0.6860	-0.6940	-0.690	-3.96
-1.90	.0257	-0.0660	.0872	-0.6435	-0.6931	-0.633	-1.90
.17	.0802	-0.0739	.1104	-0.5964	-0.6932	-0.462	.17
2.22	.1068	-0.0799	.1345	-0.5359	-0.6924	-0.205	2.22
4.27	.1599	-0.0940	.1554	-0.4756	-0.6917	.0079	4.27
6.33	.2060	-0.1049	.1778	-0.4235	-0.6920	.0405	6.33
8.40	.2619	-0.1140	.1939	-0.3838	-0.6911	.0652	8.40
10.47	.3008	-0.1233	.2124	-0.3359	-0.6905	.0795	10.47
12.55	.3657	-0.1406	.2392	-0.2962	-0.6923	.0925	12.55
14.62	.4337	-0.1607	.2708	-0.2469	-0.6898	.1036	14.62
16.68	.5096	-0.1872	.3091	-0.2206	-0.6896	.1201	16.68
18.77	.5683	-0.2138	.3494	-0.1727	-0.6888	.1340	18.77
20.83	.6778	-0.2527	.3989	-0.1114	-0.6886	.1518	20.83
	Vertical tail, upper			Vertical tail, lower			
-10.19	-0.0090	.0000	-0.0044	.0320	.0004	-0.0028	-10.19
-8.06	-0.0076	-0.0005	-0.0037	.0320	.0004	-0.0028	-8.06
-6.00	-0.0096	-0.0005	-0.0023	.0220	.0006	-0.0065	-6.00
-3.96	-0.0096	-0.0010	-0.0023	.0171	.0006	-0.0026	-3.96
-1.90	-0.0082	-0.0010	-0.0018	.0147	.0004	-0.0006	-1.90
.17	-0.0082	-0.0010	-0.0018	.0147	.0004	-0.0006	.17
2.22	-0.0050	-0.0010	-0.0025	.0147	.0004	-0.0006	2.22
4.27	-0.0070	-0.0010	-0.0011	.0149	-0.0004	-0.0006	4.27
6.33	-0.0070	-0.0010	-0.0011	.0171	.0006	-0.0026	6.33
8.40	-0.0070	-0.0010	-0.0011	.0171	.0006	-0.0026	8.40
10.47	-0.0070	-0.0010	-0.0011	.0234	.0004	-0.0054	10.47
12.55	-0.0092	-0.0005	.0002	.0234	.0004	-0.0054	12.55
14.62	-0.0092	-0.0005	.0002	.0238	-0.0002	-0.0054	14.62
16.68	-0.0070	-0.0010	-0.0011	.0241	-0.0009	-0.0057	16.68
18.77	-0.0092	.0000	.0002	.0259	-0.0017	-0.0046	18.77
20.83	-0.0059	.0005	-0.0005	.0372	-0.0031	-0.0006	20.83
	Speed brakes, upper			Speed brakes, lower			
-10.19	1.3188	-0.0885	.6561	.9470	-0.1109	.5576	-10.19
-8.06	1.2710	-0.0830	.6323	.9658	-0.1217	.5512	-8.06
-6.00	1.2131	-0.0774	.6056	.9642	-0.1274	.5579	-6.00
-3.96	1.1372	-0.0719	.5698	.9976	-0.1275	.5805	-3.96
-1.90	1.0761	-0.0719	.5426	1.0864	-0.1320	.6065	-1.90
.17	1.0365	-0.0720	.5299	1.1520	-0.1368	.6184	.17
2.22	.9876	-0.0666	.5129	1.2033	-0.1417	.6303	2.22
4.27	.9306	-0.0612	.4939	1.2756	-0.1466	.6527	4.27
6.33	.9235	-0.0669	.5017	1.3870	-0.1633	.7107	6.33
8.40	.8739	-0.0504	.4824	1.4663	-0.1740	.7494	8.40
10.47	.8405	-0.0396	.4779	1.5337	-0.1848	.7798	10.47
12.55	.6860	-0.0172	.3714	1.6148	-0.1902	.8194	12.55
14.62	.5150	-0.0057	.2555	1.7061	-0.2007	.8625	14.62
16.68	.3080	-0.0055	.1459	1.8162	-0.2116	.9179	16.68
18.77	.2348	.0164	.1122	1.9163	-0.2221	.9651	18.77
20.83	.1715	.0055	.0814	2.0341	-0.2271	1.0221	20.83

REF ID: A6492
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121

TABLE XII.- SURFACE LOADING CHARACTERISTICS AT VARIOUS UNEQUAL
DEFLECTIONS OF THE HORIZONTAL TAIL PANELS WITH THE VERTICAL

TAIL UNDEFLECTED FOR CONFIGURATION, WFHVV; $\beta = 0^\circ$ - Concluded(i) $M = 4.65$, $R = 2.28 \times 10^6$, $\delta_{H,L} = 10^\circ$, $\delta_{H,R} = -10^\circ$, $\delta_B = 35^\circ$

α , deg	C_N	C_M	C_B	C_N	C_M	C_B	α , deg
Wing, left				Wing, right			
-9.38	.2379	.0141	.0658	.1282	.0211	.0642	-9.38
-7.33	.2156	.0171	.0471	.2333	.0237	.0407	-7.33
-5.30	.1484	.0115	.0347	.1631	.0171	.0263	-5.30
-3.32	.1450	.0058	.0128	.0969	.0103	.0159	-3.32
-1.26	.1029	.0058	.0008	.0102	.0030	.0094	-1.26
.76	.0229	.0058	.0060	.0154	.0024	.0100	.76
2.80	.0008	.0000	.0203	.0191	.0046	.0283	2.80
4.82	.1304	.0000	.0227	.0000	.0072	.0455	4.82
6.84	.1340	-.0060	.0447	.0433	.0040	.0642	6.84
8.88	.1807	-.0030	.0622	.0391	.0030	.0849	8.88
10.93	.2313	-.0119	.0797	.0860	.0060	.1033	10.93
12.96	.2599	-.0121	.1029	.0634	.0105	.1292	12.96
15.00	.2920	-.0151	.1276	.0684	-.0155	.1563	15.00
17.06	.3548	-.0211	.1555	.1256	-.0215	.1834	17.06
19.14	.4398	-.0275	.1802	.1819	-.0273	.2097	19.14
Horizontal tail, left				Horizontal tail, right			
-9.38	.1405	-.0093	.0019	.2691	.0561	.1176	-9.38
-7.33	.1303	-.0113	.0097	.2249	.0523	.1061	-7.33
-5.30	.1068	-.0156	.0184	.1838	.0443	.0885	-5.30
-3.32	.0617	-.0237	.0350	.1419	.0361	.0783	-3.32
-1.26	.0455	-.0259	.0535	.1317	.0238	.0636	-1.26
.76	.0036	-.0321	.0742	.0780	.0199	.0498	.76
2.80	.0220	-.0427	.0960	.0449	.0139	.0347	2.80
4.82	.0555	-.0534	.1165	.0146	.0039	.0178	4.82
6.84	.0888	-.0640	.1369	.0012	-.0043	.0107	6.84
8.88	.1188	-.0766	.1654	.0222	-.0064	.0059	8.88
10.93	.1736	-.0959	.2006	.0136	.0106	.0038	10.93
12.96	.2361	-.1149	.2399	.0070	-.0146	.0040	12.96
15.00	.2988	-.1380	.2835	.0261	-.0184	.0122	15.00
17.06	.3996	-.1592	.3270	.0707	-.0225	.0202	17.06
19.14	.4946	-.1758	.3628	.0858	-.0264	.0340	19.14
Vertical tail, upper				Vertical tail, lower			
-9.38	.0081	.0007	.0009	.0439	-.0004	.0040	-9.38
-7.33	.0082	.0015	.0009	.0273	-.0011	.0063	-7.33
-5.30	.0002	.0007	.0000	.0266	.0007	.0063	-5.30
-3.32	.0002	.0007	.0000	.0236	-.0002	.0034	-3.32
-1.26	.0002	.0007	.0000	.0236	-.0002	.0034	-1.26
.76	.0002	.0007	.0000	.0236	-.0002	.0034	.76
2.80	-.0002	.0007	.0000	.0236	-.0002	.0034	2.80
4.82	.0000	.0000	.0000	.0203	-.0004	.0009	4.82
6.84	.0079	.0000	-.0009	.0261	-.0013	.0020	6.84
8.88	.0129	.0000	-.0028	.0170	-.0004	.0020	8.88
10.93	.0079	.0000	-.0009	.0222	-.0004	.0009	10.93
12.96	.0078	.0007	-.0009	.0173	-.0013	.0020	12.96
15.00	.0089	.0007	-.0018	.0240	-.0011	-.0037	15.00
17.06	.0078	.0007	-.0009	.0152	-.0013	-.0037	17.06
19.14	.0078	.0007	-.0009			.0003	19.14
Speed brakes, upper				Speed brakes, lower			
-9.38	1.3880	-.1505	.7383	.5489	-.0123	.2657	-9.38
-7.33	1.2632	-.1579	.6823	.6382	-.0438	.3495	-7.33
-5.30	1.1562	-.1502	.6179	.7914	-.1057	.4661	-5.30
-3.32	1.1002	-.1354	.5900	.8650	-.1212	.5186	-3.32
-1.26	1.0240	-.1278	.5475	.9685	-.0891	.5447	-1.26
.76	.9257	-.1052	.4874	1.0616	-.0879	.5664	.76
2.80	.7570	-.0901	.3987	1.1486	-.1103	.6019	2.80
4.82	.6422	-.0903	.3572	1.2799	-.1251	.6728	4.82
6.84	.5549	-.0754	.3170	1.4465	-.1555	.7674	6.84
8.88	.3761	-.0524	.1939	1.5593	-.1778	.8259	8.88
10.93	.2046	-.0520	.0806	1.7171	-.1928	.9065	10.93
12.96	.1274	-.0597	.0650	1.8694	-.1993	.9790	12.96
15.00	.0729	-.0597	.0425	2.0402	-.2136	1.0612	15.00
17.06	.0456	-.0597	.0312	2.2235	-.2359	1.1569	17.06
19.14	.0399	-.0523	.0273	2.4234	-.2657	1.2640	19.14

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TABLE XIII. - SURFACE LOADING CHARACTERISTICS FOR VARIOUS CONFIGURATIONS

THROUGHOUT AN ANGLE OF SIDESLIP RANGE; $\alpha_{\text{nom}} = 0^\circ$, $\delta_v = 0^\circ$ (a) WFHVv, $M = 2.29$, $R = 1.87 \times 10^6$, $\alpha = 0.2^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_s = 0^\circ$

β , deg	C_N	C_M	C_B	C_N	C_M	C_B	β , deg
	Wing, left			Wing, right			
-10.09	.0630	.0125	.0028	.0309	.0020	.0156	-10.09
-8.07	.0371	.0125	.0080	.0574	.0032	.0116	-8.07
-6.04	.0255	.0125	.0112	.0718	.0068	.0108	-6.04
-4.03	.0124	.0125	.0136	.0580	.0090	.0144	-4.03
-2.01	.0261	.0107	.0112	.0445	.0094	.0163	-2.01
-.02	.0377	.0107	.0080	.0317	.0078	.0183	-.02
1.98	.0493	.0107	.0048	.0467	.0076	.0179	1.98
3.97	.0862	.0107	-.0004	.0193	.0082	.0219	3.97
6.02	.0772	.0090	.0004	.0343	.0080	.0211	6.02
	Horizontal tail, left			Horizontal tail, right			
-10.09	-.0908	.0115	-.0229	.1052	-.0146	.0418	-10.09
-8.07	-.0924	.0088	-.0178	.0878	-.0148	.0374	-8.07
-6.04	-.0723	.0090	-.0135	.0776	-.0135	.0301	-6.04
-4.03	-.0645	.0076	-.0066	.0561	-.0113	.0234	-4.03
-2.01	-.0495	.0050	.0008	.0355	-.0074	.0149	-2.01
-.02	-.0315	-.0001	.0092	.0208	-.0037	.0060	-.02
1.98	-.0058	-.0041	.0186	.0052	-.0013	-.0019	1.98
3.97	-.0010	-.0053	.0272	.0138	-.0013	-.0085	3.97
6.02	.0098	-.0092	.0353	.0034	-.0023	-.0150	6.02
	Vertical tail, upper			Vertical tail, lower			
-10.09	.3783	-.0621	.1658	.3634	-.0380	.1533	-10.09
-8.07	.2924	-.0461	.1257	.2948	-.0266	.1172	-8.07
-6.04	.2220	-.0345	.0915	.2208	-.0177	.0828	-6.04
-4.03	.1529	-.0222	.0603	.1360	-.0113	.0495	-4.03
-2.01	.0652	-.0103	.0284	.0750	-.0070	.0210	-2.01
-.02	.0188	.0003	-.0044	.0045	-.0039	.0048	-.02
1.98	-.0451	.0114	.0356	.0699	-.0004	-.0228	1.98
3.97	-.1300	.0231	-.0647	.1318	.0057	-.0563	3.97
6.02	-.2083	.0368	-.0957	.2063	.0138	-.0845	6.02

REF ID: A6572
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123

TABLE XIII. - SURFACE LOADING CHARACTERISTICS FOR VARIOUS CONFIGURATIONS

THROUGHOUT AN ANGLE OF SIDESLIP RANGE; $\alpha_{\text{nom}} = 0^\circ$, $\delta_v = 0^\circ$ - Continued(b) WFHVv, $M = 2.98$, $R = 1.87 \times 10^6$, $\alpha = 0.2^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_s = 0^\circ$

β , deg	C_N	C_M	C_B	C_N	C_M	C_B	β , deg
	Wing, left			Wing, right			
-10.11	.1659	.0105	-.0175	-.1901	.0157	.0219	-10.11
-8.08	.1881	.0105	-.0171	-.1899	.0157	.0219	-8.08
-6.07	.1522	.0105	-.0116	-.1538	.0147	.0167	-6.07
-4.02	.1364	.0105	-.0076	-.1737	.0197	.0195	-4.02
-2.04	.1193	.0086	-.0048	-.1739	.0197	.0195	-2.04
-.02	.1572	.0086	-.0088	-.1919	.0203	.0223	-.02
2.00	.2120	.0105	-.0152	-.1915	.0201	.0223	2.00
4.02	.2132	.0084	-.0152	-.1919	.0203	.0223	4.02
6.05	.1951	.0084	-.0124	-.1935	.0201	.0207	6.05
	Horizontal tail, left			Horizontal tail, right			
-10.11	-.0794	.0122	-.0199	.0729	-.0131	.0332	-10.11
-8.08	-.0661	.0107	-.0135	.0529	-.0118	.0294	-8.08
-6.07	-.0489	.0077	-.0089	.0415	-.0088	.0218	-6.07
-4.02	-.0399	.0062	-.0046	.0166	-.0043	.0161	-4.02
-2.04	-.0395	.0060	-.0003	.0122	-.0013	.0087	-2.04
-.02	-.0164	.0031	.0035	.0010	.0015	.0011	-.02
2.00	-.0034	.0015	.0099	-.0118	.0029	-.0036	2.00
4.02	.0238	-.0015	.0161	-.0249	.0045	-.0057	4.02
6.05	.0317	-.0047	.0232	-.0305	.0060	-.0103	6.05
	Vertical tail, upper			Vertical tail, lower			
-10.11	.3432	-.0652	.1530	.3231	-.0435	.1482	-10.11
-8.08	.2761	-.0535	.1207	.2600	-.0421	.1152	-8.08
-6.07	.2154	-.0392	.0940	.1876	-.0319	.0828	-6.07
-4.02	.1414	-.0245	.0592	.1193	-.0207	.0546	-4.02
-2.04	.0590	-.0123	.0294	.0493	-.0037	.0279	-2.04
-.02	.0131	-.0005	-.0032	-.0502	.0017	.0159	-.02
2.00	-.0554	.0111	-.0365	-.0991	.0090	-.0122	2.00
4.02	-.1171	.0249	-.0642	-.1530	.0177	-.0481	4.02
6.05	-.2002	.0397	-.0968	-.2072	.0284	-.0796	6.05

TABLE XIII. - SURFACE LOADING CHARACTERISTICS FOR VARIOUS CONFIGURATIONS

THROUGHOUT AN ANGLE OF SIDESLIP RANGE; $\alpha_{\text{nom}} = 0^\circ$, $\delta_v = 0^\circ$ - Continued(c) WFHVv, $M = 4.65$, $R = 2.28 \times 10^6$, $\alpha = 0.8^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_S = 0^\circ$

β , deg	C_N	C_M	C_B	C_N	C_M	C_B	β , deg
	Wing, left			Wing, right			
-10.14	-.1021	.0000	.0207	.1137	-.0139	.0060	-10.14
-8.08	-.1037	-.0030	.0183	.1358	-.0145	.0024	-8.08
-6.07	-.1039	-.0030	.0183	.1370	-.0177	.0024	-6.07
-4.04	-.1031	-.0058	.0183	.1821	-.0155	-.0020	-4.04
-2.04	-.1183	-.0058	.0175	.1823	-.0155	-.0020	-2.04
-0.04	-.0682	-.0030	.0128	.1358	-.0145	.0024	-0.04
2.02	-.0684	-.0030	.0128	.1127	-.0109	.0060	2.02
4.00	-.0794	.0000	.0175	.1348	-.0115	.0028	4.00
6.03	-.1250	-.0030	.0215	.1344	-.0113	.0024	6.03
	Horizontal tail, left			Horizontal tail, right			
-10.14	-.0499	.0084	-.0143	.0293	-.0099	.0243	-10.14
-8.08	-.0511	.0061	-.0099	.0116	-.0079	.0216	-8.08
-6.07	-.0419	.0040	-.0055	.0038	-.0061	.0175	-6.07
-4.04	-.0257	.0041	-.0025	-.0040	-.0040	.0131	-4.04
-2.04	-.0337	.0019	.0028	-.0134	-.0040	.0108	-2.04
-0.04	-.0166	-.0021	.0062	-.0507	-.0020	.0107	-0.04
2.02	-.0110	-.0021	.0093	-.0798	-.0021	.0096	2.02
4.00	-.0018	-.0043	.0136	-.0695	-.0022	.0044	4.00
6.03	.0152	-.0064	.0171	-.0866	-.0001	.0016	6.03
	Vertical tail, upper			Vertical tail, lower			
-10.14	.2797	-.0603	.1177	.3443	-.0432	.0868	-10.14
-8.08	.2260	-.0491	.0924	.2824	-.0328	.0643	-8.08
-6.07	.1724	-.0376	.0672	.2320	-.0194	.0310	-6.07
-4.04	.1118	-.0255	.0392	.1705	-.0090	.0145	-4.04
-2.04	.0751	-.0129	.0225	.1193	-.0007	-.0051	-2.04
-0.04	.0089	.0007	-.0018	.0780	-.0002	-.0210	-0.04
2.02	-.0610	.0136	-.0216	.0031	-.0087	-.0361	2.02
4.00	-.0949	.0255	-.0456	-.0617	.0199	-.0592	4.00
6.03	-.1364	.0368	-.0702	-.1016	.0279	-.0802	6.03

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125

TABLE XIII. - SURFACE LOADING CHARACTERISTICS FOR VARIOUS CONFIGURATIONS

THROUGHOUT AN ANGLE OF SIDESLIP RANGE; $\alpha_{\text{nom}} = 0^\circ$, $\delta_v = 0^\circ$ - Continued(d) WFHVv, $M = 2.29$, $R = 1.87 \times 10^6$, $\alpha = 0.2^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_s = 35^\circ$

β , deg	C_N	C_M	C_B	C_N	C_M	C_B	β , deg
	Wing, left			Wing, right			
-10.07	.0832	.0090	-.0032	.0562	.0032	.0104	-10.07
-8.03	.0351	.0090	.0052	.0987	.0042	.0056	-8.03
-6.01	.0219	.0090	.0072	.0973	.0082	.0056	-6.01
-3.99	.0361	.0109	.0068	.0979	.0099	.0068	-3.99
.00	.0361	.0090	.0044	.0706	.0105	.0112	.00
-2.00	.0499	-.0090	.0044	.0032	.0722	.0068	-2.00
1.97	.0489	.0072	-.0032	.0590	.0072	.0112	1.97
3.99	.0840	.0072	-.0068	.0604	.0072	.0144	3.99
5.97	.0973	.0072	-.0044	.0742	.0088	.0159	5.97
	Horizontal tail, left			Horizontal tail, right			
-10.07	-.0072	.0080	-.0181	.0996	-.0147	.0403	-10.07
-8.03	-.0038	.0079	-.0163	.0764	-.0148	.0348	-8.03
-6.01	.0080	.0080	-.0134	.0705	-.0163	.0280	-6.01
-3.99	.0226	.0094	-.0086	.0776	-.0163	.0200	-3.99
-2.00	.0355	.0120	-.0044	.0439	-.0140	.0138	-2.00
.00	.0493	.0042	.0042	.0299	-.0089	.0057	.00
1.97	.0525	.0028	.0122	.0180	-.0078	-.0015	1.97
3.99	.0645	.0004	.0209	-.0046	-.0092	-.0050	3.99
5.97	.0641	.0029	.0279	-.0032	-.0079	-.0109	5.97
	Vertical tail, upper			Vertical tail, lower			
-10.07	.3861	-.0718	.1748	.3677	-.0505	.1482	-10.07
-8.03	.2994	-.0551	.1321	.2838	-.0356	.1146	-8.03
-6.01	.2206	-.0410	.0979	.2084	-.0262	.0828	-6.01
-3.99	.1517	-.0275	.0651	.1193	-.0179	.0501	-3.99
-2.00	.0653	-.0157	.0337	.0666	-.0092	.0236	-2.00
.00	.0012	.0000	-.0032	-.0023	-.0013	-.0046	.00
1.97	-.0555	.0119	-.0346	-.0818	.0090	-.0276	1.97
3.99	-.1436	.0253	-.0670	-.1387	.0172	-.0631	3.99
5.97	-.2319	.0402	-.1002	-.2156	.0260	-.0924	5.97
	Speed brakes, upper			Speed brakes, lower			
-10.07	1.5794	-.2421	.8250	1.5605	-.1694	.8031	-10.07
-8.03	1.5120	-.2280	.7801	1.5047	-.1645	.7620	-8.03
-6.01	1.4389	-.2233	.7328	1.4669	-.1598	.7346	-6.01
-3.99	1.3719	-.2188	.7004	1.4002	-.1505	.6973	-3.99
-2.00	1.2777	-.2095	.6525	1.3223	-.1463	.6621	-2.00
.00	1.1467	-.1910	.5807	1.2291	-.1234	.6295	.00
1.97	1.0472	-.1866	.5543	1.1443	-.1189	.5800	1.97
3.99	.8801	-.1494	.4608	1.0399	-.1102	.5399	3.99
5.97	.7750	-.1354	.4120	.8787	-.0678	.4550	5.97

TABLE XIII. - SURFACE LOADING CHARACTERISTICS FOR VARIOUS CONFIGURATIONS

THROUGHOUT AN ANGLE OF SIDESLIP RANGE; $\alpha_{\text{nom}} = 0^\circ$, $\delta_v = 0^\circ$ - Continued(e) WFFHVv, $M = 4.65$, $R = 2.28 \times 10^6$, $\alpha = 0.8^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_s = 35^\circ$

β , deg	C_N	C_M	C_B	C_N	C_M	C_B	β , deg
	Wing, left			Wing, right			
-10.08	-0.0459	.0115	.0116	.0160	-0.0060	.0128	-10.08
-8.03	-0.0740	.0058	.0108	-0.0084	-0.0054	.0140	-8.03
-6.02	-0.0732	.0030	.0108	.0136	-0.0060	.0104	-6.02
-4.00	-0.0724	.0000	.0108	.0379	-0.0066	.0096	-4.00
-2.03	-0.0241	.0000	.0036	.0379	-0.0066	.0096	-2.03
-0.04	.0000	.0000	.0000	.0379	-0.0066	.0096	-0.04
2.03	.0271	.0000	-0.0016	.0160	-0.0060	.0128	2.03
3.98	-0.0211	.0000	.0056	.0136	-0.0060	.0104	3.98
6.02	-0.0702	.0030	.0128	.0124	-0.0028	.0108	6.02
	Horizontal tail, left			Horizontal tail, right			
-10.08	-0.1355	.0015	-0.0032	-0.0010	-0.0121	.0272	-10.08
-8.03	-0.1192	.0016	.0000	-0.0090	-0.0100	.0228	-8.03
-6.02	-0.1204	-0.0005	.0040	-0.0267	-0.0080	.0200	-6.02
-4.00	-0.0966	.0017	.0061	-0.0345	-0.0060	.0156	-4.00
-2.03	-0.1180	.0015	.0111	-0.0427	-0.0041	.0132	-2.03
-0.04	-0.0922	-0.0026	.0136	-0.0411	-0.0020	.0095	-0.04
2.03	-0.0924	-0.0068	.0174	-0.0894	-0.0020	.0111	2.03
3.98	-0.0764	-0.0067	.0209	-0.0876	.0000	.0071	3.98
6.02	-0.0679	-0.0068	.0253	-0.1066	-0.0002	.0043	6.02
	Vertical tail, upper			Vertical tail, lower			
-10.08	.2626	-0.0605	.1216	.3455	-0.0607	.0907	-10.08
-8.03	.2122	-0.0492	.0947	.2929	-0.0487	.0654	-8.03
-6.02	.1440	.0370	.0658	.2210	-0.0367	.0361	-6.02
-4.00	.0985	-0.0255	.0417	.1640	-0.0236	.0191	-4.00
-2.03	.0594	-0.0114	.0243	.1112	-0.0125	.0006	-2.03
-0.04	-0.0011	.0007	.0025	.0477	.0006	.0063	-0.04
2.03	-0.0745	.0129	-0.0188	-0.0023	.0133	.0333	2.03
3.98	-0.1086	.0263	-0.0397	-0.0360	.0232	.0492	3.98
6.02	-0.1546	.0376	-0.0665	-0.1096	.0354	.0779	6.02
	Speed brakes, upper			Speed brakes, lower			
-10.08	1.4987	-0.1277	.7569	1.7928	-0.1604	.9061	-10.08
-8.03	1.3631	-0.1127	.6833	1.6279	-0.1457	.8149	-8.03
-6.02	1.3323	-0.1350	.6570	1.5311	-0.1462	.7649	-6.02
-4.00	1.2276	-0.1203	.6250	1.4334	-0.1315	.7219	-4.00
-2.03	.9471	-0.0605	.4921	1.2779	-0.1326	.6555	-2.03
-0.04	.9212	-0.0755	.4816	1.0701	-0.0957	.5692	-0.04
2.03	.7932	-0.0909	.4637	.9364	-0.0888	.5099	2.03
3.98	.4655	-0.0384	.2907	.7622	-0.0830	.4567	3.98
6.02	.3310	-0.0531	.2129	.4823	-0.0533	.3034	6.02

TABLE XIII. - SURFACE LOADING CHARACTERISTICS FOR VARIOUS CONFIGURATIONS

THROUGHOUT AN ANGLE OF SIDESLIP RANGE; $\alpha_{\text{nom}} = 0^\circ$, $\delta_v = 0^\circ$ - Continued(f) WFVv, $M = 2.29$, $R = 1.87 \times 10^6$, $\alpha = 0.2^\circ$, $\delta_s = 0^\circ$

β , deg	C_N	C_M	C_B	C_N	C_M	C_B	β , deg
	Wing, left			Wing, right			
-10.12	.0935	.0054	-.0004	-.0594	.0038	.0199	-10.12
-8.05	.0834	.0054	.0044	.0176	.0048	.0152	-8.05
-6.06	.0714	.0054	.0076	-.0183	.0068	.0152	-6.06
-4.03	.0568	.0036	.0084	-.0313	.0090	.0187	-4.03
-2.03	.0704	.0036	.0064	-.0451	.0094	.0207	-2.03
-0.04	.0686	.0036	.0048	-.0588	.0097	.0227	-0.04
2.02	.1091	.0036	-.0012	-.0574	.0097	.0243	2.02
4.00	.1211	.0036	-.0048	-.0423	.0094	.0235	4.00
6.03	.1201	.0018	-.0060	-.0403	.0076	.0247	6.03
	Horizontal tail, left			Horizontal tail, right			
-10.12	.0000	.0000	.0000	.0000	.0000	.0000	-10.12
-8.05	.0000	.0000	.0000	.0000	.0000	.0000	-8.05
-6.06	.0000	.0000	.0000	.0000	.0000	.0000	-6.06
-4.03	.0000	.0000	.0000	.0000	.0000	.0000	-4.03
-2.03	.0000	.0000	.0000	.0000	.0000	.0000	-2.03
-0.04	.0000	.0000	.0000	.0000	.0000	.0000	-0.04
2.02	.0000	.0000	.0000	.0000	.0000	.0000	2.02
4.00	.0000	.0000	.0000	.0000	.0000	.0000	4.00
6.03	.0000	.0000	.0000	.0000	.0000	.0000	6.03
	Vertical tail, upper			Vertical tail, lower			
-10.12	.3721	-.0623	.1665	.3578	-.0386	.1553	-10.12
-8.05	.2840	-.0466	.1252	.2876	-.0284	.1206	-8.05
-6.06	.2150	-.0347	.0936	.2125	-.0177	.0859	-6.06
-4.03	.1473	-.0222	.0615	.1271	-.0101	.0529	-4.03
-2.03	.0593	-.0111	.0312	.0692	-.0053	.0270	-2.03
-0.04	.0051	.0000	-.0032	.0079	-.0039	.0057	-0.04
2.02	-.0546	.0110	-.0362	-.0734	.0009	-.0250	2.02
4.00	-.1402	.0231	-.0656	-.1366	.0068	-.0560	4.00
6.03	-.2240	.0360	-.0970	-.2173	.0140	-.0890	6.03

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128

TABLE XIII. - SURFACE LOADING CHARACTERISTICS FOR VARIOUS CONFIGURATIONS

THROUGHOUT AN ANGLE OF SIDESLIP RANGE; $\alpha_{\text{nom}} = 0^\circ$, $\delta_v = 0^\circ$ - Continued(g) WFFVv, $M = 2.98$, $R = 1.87 \times 10^6$, $\alpha = 0.2^\circ$, $\delta_s = 0^\circ$

β , deg	C_N	C_M	C_B	C_N	C_M	C_B	β , deg
	Wing, left			Wing, right			
-10.15	.1546	.0066	-.0156	-.1526	.0131	.0223	-10.15
-8.08	.1173	.0066	-.0100	-.1524	.0131	.0223	-8.08
-6.07	.0989	.0066	-.0072	-.1346	.0149	.0195	-6.07
-4.04	.0642	.0066	.0000	-.1356	.0173	.0195	-4.04
-2.02	.0427	.0044	.0048	-.1151	.0169	.0183	-2.02
-0.02	.0778	.0066	.0012	-.1733	.0183	.0251	-0.02
2.00	.1428	.0066	-.0080	-.1941	.0187	.0263	2.00
4.02	.1829	.0044	-.0120	-.1941	.0187	.0263	4.02
6.01	.1829	.0044	-.0120	-.1743	.0159	.0235	6.01
	Horizontal tail, left			Horizontal tail, right			
-10.15	.0000	.0000	.0000	.0000	.0000	.0000	-10.15
-8.08	.0000	.0000	.0000	.0000	.0000	.0000	-8.08
-6.07	.0000	.0000	.0000	.0000	.0000	.0000	-6.07
-4.04	.0000	.0000	.0000	.0000	.0000	.0000	-4.04
-2.02	.0000	.0000	.0000	.0000	.0000	.0000	-2.02
-0.02	.0000	.0000	.0000	.0000	.0000	.0000	-0.02
2.00	.0000	.0000	.0000	.0000	.0000	.0000	2.00
4.02	.0000	.0000	.0000	.0000	.0000	.0000	4.02
6.01	.0000	.0000	.0000	.0000	.0000	.0000	6.01
	Vertical tail, upper			Vertical tail, lower			
-10.15	.3399	-.0639	.1532	.3364	-.0493	.1533	-10.15
-8.08	.2718	-.0512	.1204	.2642	-.0365	.1183	-8.08
-6.07	.2091	-.0381	.0954	.1915	-.0234	.0876	-6.07
-4.04	.1402	-.0239	.0606	.1268	-.0153	.0575	-4.04
-2.02	.0600	-.0111	.0278	.0628	-.0074	.0282	-2.02
-0.02	.0036	.0005	-.0014	-.0187	-.0053	.0119	-0.02
2.00	-.0558	.0121	-.0369	-.0845	.0000	-.0148	2.00
4.02	-.1223	.0253	-.0647	-.1348	.0083	-.0526	4.02
6.01	-.2035	.0407	-.0961	-.1918	.0186	-.0822	6.01

L-350

REF ID: A6512

TABLE XIII. - SURFACE LOADING CHARACTERISTICS FOR VARIOUS CONFIGURATIONS

THROUGHOUT AN ANGLE OF SIDESLIP RANGE; $\alpha_{\text{nom}} = 0^\circ$, $\delta_v = 0^\circ$ - Concluded(h) WFFVv, $M = 4.65$, $R = 2.28 \times 10^6$, $\alpha = 0.8^\circ$, $\delta_s = 0^\circ$

β , deg	C_N	C_M	C_B	C_N	C_M	C_B	β , deg
	Wing, left			Wing, right			
-10.12	-.0337	.0058	.0152	-.0094	-.0086	.0120	-10.12
-8.06	-.0572	.0058	.0163	-.0106	-.0054	.0120	-8.06
-8.08	-.0411	.0058	.0136	-.0106	-.0054	.0120	-8.08
-6.05	-.0403	.0030	.0136	-.0337	-.0080	.0128	-6.05
-4.04	-.0911	.0028	.0183	-.0130	-.0054	.0096	-4.04
-2.06	-.0433	.0030	.0116	.0104	-.0092	.0060	-2.06
-0.02	.0058	.0000	.0040	-.0118	-.0086	.0096	-0.02
2.00	.0096	-.0030	.0060	-.0337	-.0080	.0128	2.00
4.00	-.0154	.0000	.0100	-.0337	-.0080	.0128	4.00
6.04	-.0556	.0000	.0163	-.0349	-.0048	.0132	6.04
	Horizontal tail, left			Horizontal tail, right			
-10.12	.0000	.0000	.0000	.0000	.0000	.0000	-10.12
-8.06	.0000	.0000	.0000	.0000	.0000	.0000	-8.06
-8.08	.0000	.0000	.0000	.0000	.0000	.0000	-8.08
-6.05	.0000	.0000	.0000	.0000	.0000	.0000	-6.05
-4.04	.0000	.0000	.0000	.0000	.0000	.0000	-4.04
-2.06	.0000	.0000	.0000	.0000	.0000	.0000	-2.06
-0.02	.0000	.0000	.0000	.0000	.0000	.0000	-0.02
2.00	.0000	.0000	.0000	.0000	.0000	.0000	2.00
4.00	.0000	.0000	.0000	.0000	.0000	.0000	4.00
6.04	.0000	.0000	.0000	.0000	.0000	.0000	6.04
	Vertical tail, upper			Vertical tail, lower			
-10.12	.2590	-.0605	.1168	.3294	-.0540	.0919	-10.12
-8.06	.2074	-.0497	.0924	.2952	-.0550	.0651	-8.06
-8.08	.2095	-.0491	.0936	.2761	-.0539	.0666	-8.08
-6.05	.1613	-.0389	.0679	.2502	-.0494	.0327	-6.05
-4.04	.1036	-.0268	.0411	.1777	-.0365	.0193	-4.04
-2.06	.0596	-.0136	.0241	.1350	-.0255	-.0034	-2.06
-0.02	.0048	.0000	-.0018	.0546	-.0142	-.0068	-0.02
2.00	-.0730	.0129	-.0211	-.0138	-.0004	-.0262	2.00
4.00	-.1092	.0262	-.0431	-.0561	-.0098	-.0538	4.00
6.04	-.1507	.0368	-.0679	-.1186	-.0210	-.0691	6.04

TABLE XIV. - SURFACE LOADING CHARACTERISTICS FOR VARIOUS CONFIGURATIONS

THROUGHOUT AN ANGLE OF SIDESLIP RANGE; $\alpha_{\text{nom}} = 8^\circ$, $\delta_v = 0^\circ$ (a) WFFHVv, $M = 2.29$, $R = 1.87 \times 10^6$, $\alpha = 8.5^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_s = 0^\circ$

β , deg	C_N	C_M	C_B	C_N	C_M	C_B	β , deg
	Wing, left			Wing, right			
-10.17	.3516	-.0155	.1356	.3075	-.0241	.1495	-10.17
-8.14	.3634	-.0137	.1324	.2956	-.0239	.1531	-8.14
-6.08	.3753	-.0137	.1288	.2800	-.0187	.1551	-6.08
-4.06	.3763	-.0119	.1304	.3067	-.0183	.1511	-4.06
-2.07	.3644	-.0117	.1336	.3209	-.0167	.1503	-2.07
-0.04	.3376	-.0137	.1380	.2912	-.0161	.1519	-0.04
2.00	.3227	-.0135	.1396	.3171	-.0167	.1471	2.00
4.03	.3111	-.0135	.1431	.3161	-.0169	.1459	4.03
6.06	.2706	-.0151	.1491	.3303	-.0191	.1439	6.06
	Horizontal tail, left			Horizontal tail, right			
-10.17	.1615	-.0619	.1170	.3080	-.0557	.1353	-10.17
-8.14	.1721	-.0631	.1190	.3178	-.0596	.1352	-8.14
-6.08	.1723	-.0659	.1252	.3156	-.0634	.1343	-6.08
-4.06	.1721	-.0645	.1283	.3142	-.0662	.1321	-4.06
-2.07	.1643	-.0645	.1308	.3086	-.0661	.1295	-2.07
-0.04	.1571	-.0619	.1340	.2982	-.0650	.1244	-0.04
2.00	.1605	-.0616	.1388	.3040	-.0635	.1233	2.00
4.03	.1723	-.0617	.1419	.3098	-.0648	.1212	4.03
6.06	.1760	-.0578	.1447	.2992	-.0635	.1175	6.06
	Vertical tail, upper			Vertical tail, lower			
-10.17	.3231	-.0746	.1388	.4763	-.0491	.2128	-10.17
-8.14	.2503	-.0576	.1037	.3898	-.0308	.1673	-8.14
-6.08	.1904	-.0409	.0773	.2943	-.0159	.1178	-6.08
-4.06	.1363	-.0237	.0541	.1888	-.0065	.0723	-4.06
-2.07	.0558	-.0116	.0257	.0977	-.0024	.0270	-2.07
-0.04	.0258	-.0016	.0009	-.0003	-.0041	.0014	-0.04
2.00	-.0386	.0141	-.0303	-.0838	-.0011	-.0336	2.00
4.03	-.1078	.0273	-.0539	-.1745	-.0048	-.0748	4.03
6.06	-.1792	.0442	-.0817	-.2784	-.0142	-.1266	6.06

REF ID: A65182
REF ID: A65182

TABLE XIV. - SURFACE LOADING CHARACTERISTICS FOR VARIOUS CONFIGURATIONS
THROUGHOUT AN ANGLE OF SIDESLIP RANGE; $\alpha_{\text{nom}} = 8^{\circ}$, $\delta_v = 0^{\circ}$ - Continued

(b) WFHVv, $M = 2.98$, $R = 1.87 \times 10^6$, $\alpha = 8.4^{\circ}$, $\delta_{H,L} = \delta_{H,R} = 0^{\circ}$, $\delta_S = 0^{\circ}$

β , deg	C_N	C_M	C_B	C_N	C_M	C_B	β , deg
	Wing, left			Wing, right			
-10.16	.4079	-.0054	.0957	.0774	-.0115	.1224	-10.16
-8.09	.3702	-.0074	.0961	.0937	-.0119	.1200	-8.09
-6.09	.3500	-.0074	.0953	.0732	-.0048	.1208	-6.09
-4.06	.3480	-.0074	.0937	.0722	-.0026	.1208	-4.06
-2.05	.3638	-.0052	.0913	.0542	-.0002	.1236	-2.05
-0.02	.3301	-.0072	.0949	.0706	.0020	.1212	-0.02
2.01	.2942	-.0092	.0965	.0704	.0020	.1212	2.01
4.02	.2607	-.0113	.0997	.0714	-.0002	.1212	4.02
6.05	.2471	-.0133	.1037	.0746	-.0002	.1244	6.05
	Horizontal tail, left			Horizontal tail, right			
-10.16	.1391	-.0403	.0799	.3200	-.0560	.1181	-10.16
-8.09	.1417	-.0403	.0851	.3060	-.0561	.1161	-8.09
-6.09	.1413	-.0420	.0922	.2994	-.0561	.1116	-6.09
-4.06	.1467	-.0435	.0984	.3028	-.0516	.1071	-4.06
-2.05	.1589	-.0482	.1041	.3050	-.0486	.1030	-2.05
-0.02	.1467	-.0499	.1088	.2950	-.0425	.0992	-0.02
2.01	.1471	-.0499	.1126	.2838	-.0379	.0955	2.01
4.02	.1547	-.0529	.1160	.3006	-.0350	.0879	4.02
6.05	.1693	-.0545	.1196	.2685	-.0305	.0831	6.05
	Vertical tail, upper			Vertical tail, lower			
-10.16	.2525	-.0564	.1131	.4628	-.0804	.1889	-10.16
-8.09	.2032	-.0419	.0922	.3924	-.0677	.1616	-8.09
-6.09	.1524	-.0294	.0707	.3025	-.0522	.1206	-6.09
-4.06	.0913	-.0160	.0445	.2062	-.0349	.0765	-4.06
-2.05	.0507	-.0064	.0213	.0986	-.0173	.0324	-2.05
-0.02	.0190	0.0000	-.0039	-.0077	.0007	.0063	-0.02
2.01	-.0386	.0067	-.0266	-.1144	.0168	-.0279	2.01
4.02	-.0800	.0160	-.0475	-.1965	.0336	-.0737	4.02
6.05	-.1240	.0299	-.0713	-.2883	.0500	-.1220	6.05

TABLE XIV. - SURFACE LOADING CHARACTERISTICS FOR VARIOUS CONFIGURATIONS
THROUGHOUT AN ANGLE OF SIDESLIP RANGE; $\alpha_{\text{nom}} = 8^\circ$, $\delta_v = 0^\circ$ - Continued

(c) WFHVv, $M = 4.65$, $R = 2.28 \times 10^6$, $\alpha = 8.9^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_s = 0^\circ$

β , deg	C_N	C_M	C_B	C_N	C_M	C_B	β , deg
Wing, left				Wing, right			
-10.15	.2168	-.0090	.0690	.2292	-.0231	.0638	-10.15
-8.09	.1931	-.0119	.0702	.2080	-.0193	.0694	-8.09
-6.08	.1935	-.0119	.0702	.2094	-.0163	.0718	-6.08
-4.05	.1907	-.0119	.0682	.2104	-.0131	.0742	-4.05
-2.06	.1663	-.0117	.0694	.2321	-.0074	.0730	-2.06
-0.02	.1187	-.0147	.0718	.1849	-.0095	.0754	-0.02
1.99	.0945	-.0145	.0730	.2092	-.0099	.0742	1.99
4.01	.0692	-.0145	.0742	.2102	-.0068	.0766	4.01
6.04	.0455	-.0145	.0758	.2124	-.0068	.0786	6.04
Horizontal tail, left				Horizontal tail, right			
-10.15	.0818	-.0275	.0581	.1253	-.0320	.0734	-10.15
-8.09	.0854	-.0296	.0593	.1156	-.0319	.0731	-8.09
-6.08	.0988	-.0296	.0611	.1174	-.0300	.0691	-6.08
-4.05	.1016	-.0295	.0629	.1190	-.0280	.0655	-4.05
-2.06	.1082	-.0274	.0616	.1110	-.0259	.0630	-2.06
-0.02	.0842	-.0252	.0648	.0928	-.0237	.0637	-0.02
1.99	.0948	-.0252	.0653	.0930	-.0237	.0637	1.99
4.01	.1176	-.0295	.0659	.0942	-.0218	.0636	4.01
6.04	.0982	-.0316	.0708	.1052	-.0196	.0620	6.04
Vertical tail, upper				Vertical tail, lower			
-10.15	.2050	-.0389	.0830	.4275	-.0640	.1272	-10.15
-8.09	.1745	-.0314	.0658	.3504	-.0485	.0842	-8.09
-6.08	.1290	-.0240	.0505	.2682	-.0317	.0538	-6.08
-4.05	.0969	-.0159	.0358	.1867	-.0122	.0205	-4.05
-2.06	.0621	-.0067	.0229	.1266	-.0009	-.0040	-2.06
-0.02	.0135	.0000	-.0028	.0783	.0057	-.0191	-0.02
1.99	-.0170	.0072	-.0227	-.0075	.0207	-.0339	1.99
4.01	-.0758	.0159	-.0436	-.0596	.0363	-.0666	4.01
6.04	-.1039	.0240	-.0530	-.1214	.0424	-.0942	6.04

TABLE XIV. - SURFACE LOADING CHARACTERISTICS FOR VARIOUS CONFIGURATIONS

THROUGHOUT AN ANGLE OF SIDESLIP RANGE; $\alpha_{\text{nom}} = 8^\circ$, $\delta_v = 0^\circ$ - Continued(d) WFHVv, $M = 2.29$, $R = 1.87 \times 10^6$, $\alpha = 8.5^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_s = 35^\circ$

β , deg	C_N	C_M	C_B	C_N	C_M	C_B	β , deg
	Wing, left			Wing, right			
-10.12	.3490	-.0209	.1320	.2906	-.0239	.1479	-10.12
-8.10	.3454	-.0209	.1292	.2898	-.0221	.1479	-8.10
-6.06	.3733	-.0193	.1252	.2607	-.0187	.1511	-6.06
-4.05	.3735	-.0193	.1260	.2862	-.0181	.1463	-4.05
-2.02	.3771	-.0175	.1292	.3147	-.0169	.1439	-2.02
-.02	.3640	-.0193	.1312	.2708	-.0113	.1491	-.02
2.00	.3363	-.0191	.1352	.2982	-.0127	.1447	2.00
4.02	.2932	-.0189	.1400	.2964	-.0127	.1431	4.02
6.02	.2838	-.0207	.1451	.2970	-.0127	.1435	6.02
	Horizontal tail, left			Horizontal tail, right			
-10.12	.1988	-.0566	.1055	.3036	-.0545	.1353	-10.12
-8.10	.2176	-.0576	.1088	.3124	-.0597	.1350	-8.10
-6.06	.2343	-.0631	.1166	.3162	-.0650	.1339	-6.06
-4.05	.2309	-.0668	.1237	.3267	-.0660	.1291	-4.05
-2.02	.2311	-.0658	.1241	.3022	-.0688	.1276	-2.02
-.02	.2259	-.0604	.1257	.3098	-.0678	.1208	-.02
2.00	.2158	-.0618	.1330	.3253	-.0716	.1219	2.00
4.02	.2208	-.0576	.1364	.3198	-.0703	.1193	4.02
6.02	.2204	-.0550	.1399	.3166	-.0679	.1133	6.02
	Vertical tail, upper			Vertical tail, lower			
-10.12	.3312	-.0824	.1498	.4707	-.0609	.2062	-10.12
-8.10	.2567	-.0657	.1135	.3835	-.0424	.1607	-8.10
-6.06	.1871	-.0414	.0830	.2880	-.0255	.1149	-6.06
-4.05	.1478	-.0347	.0645	.1738	-.0137	.0708	-4.05
-2.02	.0636	-.0209	.0323	.0797	-.0066	.0279	-2.02
-.02	-.0002	-.0013	.0000	.0072	-.0000	-.0077	-.02
2.00	-.0605	.0222	-.0342	-.0815	.0046	-.0424	2.00
4.02	-.1380	.0347	-.0635	-.1775	.0135	-.0831	4.02
6.02	-.1882	.0427	-.0821	-.2836	.0269	-.1314	6.02
	Speed brakes, upper			Speed brakes, lower			
-10.12	1.5209	-.1536	.7377	1.6011	-.1591	.7930	-10.12
-8.10	1.4898	-.1910	.7521	1.5793	-.1493	.7736	-8.10
-6.06	1.3487	-.1826	.7213	1.5662	-.1543	.7591	-6.06
-4.05	1.0279	-.1773	.5866	1.5212	-.1536	.7282	-4.05
-2.02	.9994	-.1490	.5013	1.4750	-.1445	.7026	-2.02
-.02	1.1047	-.2099	.5923	1.4100	-.1404	.6811	-.02
2.00	.9777	-.1867	.5377	1.3622	-.1361	.6666	2.00
4.02	.9132	-.1723	.4856	1.2434	-.1416	.6153	4.02
6.02	.9168	-.2001	.4691	1.2162	-.1422	.6095	6.02

TABLE XIV. - SURFACE LOADING CHARACTERISTICS FOR VARIOUS CONFIGURATIONS

THROUGHOUT AN ANGLE OF SIDESLIP RANGE; $\alpha_{\text{nom}} = 8^{\circ}$, $\delta_v \approx 0^{\circ}$ - Continued(e) WFFHVv, $M = 4.65$, $R = 2.28 \times 10^6$, $\alpha = 8.9^{\circ}$, $\delta_{H,L} = \delta_{H,R} = 0^{\circ}$, $\delta_s = 35^{\circ}$

β , deg	C_N	C_M	C_B	C_N	C_M	C_B	β , deg
	Wing, left			Wing, right			
-10.09 -8.06 -6.06 -4.02 -2.06 -0.02 2.02 4.01 6.03	.2567 .2549 .2549 .2306 .2280 .1582 .1338 .0854 .0816	-.0032 -.0062 -.0062 -.0062 -.0062 -.0090 -.0088 -.0088 -.0088	.0606 .0586 .0586 .0598 .0574 .0634 .0646 .0670 .0650	.1103 .1113 .1123 .1135 .0876 .2646 .0899 .1133 .1155	-.0205 -.0173 -.0141 -.0109 -.0040 -.0066 -.0070 -.0048 -.0046	.0722 .0746 .0770 .0790 .0825 .0837 .0825 .0813 .0837	-10.09 -8.06 -6.06 -4.02 -2.06 -0.02 2.02 4.01 6.03
	Horizontal tail, left			Horizontal tail, right			
-10.09 -8.06 -6.06 -4.02 -2.06 -0.02 2.02 4.01 6.03	.0287 .0094 .0228 .0112 .0094 .0084 .0297 .0389 .0529	-.0364 -.0343 -.0343 -.0322 -.0278 -.0257 -.0256 -.0277 -.0341	.0646 .0651 .0669 .0666 .0667 .0664 .0672 .0715 .0779	.1142 .1146 .1064 .0916 .0850 .0764 .0958 .1152 .1164	-.0341 -.0342 -.0322 -.0259 -.0218 -.0196 -.0196 -.0197 -.0175	.0770 .0751 .0727 .0658 .0616 .0627 .0619 .0608 .0607	-10.09 -8.06 -6.06 -4.02 -2.06 -0.02 2.02 4.01 6.03
	Vertical tail, upper			Vertical tail, lower			
-10.09 -8.06 -6.06 -4.02 -2.06 -0.02 2.02 4.01 6.03	.2035 .1675 .1252 .0800 .0488 .0079 .0422 .0712 .1212	-.0417 -.0342 -.0268 -.0152 -.0067 .0007 -.0023 .0160 .0281	.0881 .0713 .0546 .0399 .0257 -.0009 -.0223 -.0385 -.0516	.4441 .3588 .2717 .1944 .1208 .0472 -.0131 -.0820 -.1262	-.0880 -.0681 -.0500 -.0315 -.0155 .0015 .0135 .0293 .0461	.1300 .0876 .0592 .0233 .0003 -.0063 -.0307 -.0597 -.0964	-10.09 -8.06 -6.06 -4.02 -2.06 -0.02 2.02 4.01 6.03
	Speed brakes, upper			Speed brakes, lower			
-10.09 -8.06 -6.06 -4.02 -2.06 -0.02 2.02 4.01 6.03	.9084 .6882 .5164 .4271 .3707 .3786 .5679 .5096 .3256	-.0679 -.0899 -.1120 -.0521 -.0451 -.0973 -.1202 -.1574 -.1423	.4755 .3437 .2427 .1914 .1952 .1954 .3208 .2955 .1862	2.6925 2.4927 2.3149 2.0227 1.8155 1.6124 1.4170 1.1092 .8402	-.2635 -.2569 -.2427 -.2055 -.1915 -.1779 -.1794 -.1651 -.1358	1.3578 1.2585 1.1768 1.0229 .9318 .8565 .7759 .6062 .4731	-10.09 -8.06 -6.06 -4.02 -2.06 -0.02 2.02 4.01 6.03

REF ID: A6510000
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135

TABLE XIV.- SURFACE LOADING CHARACTERISTICS FOR VARIOUS CONFIGURATIONS
THROUGHOUT AN ANGLE OF SIDESLIP RANGE; $\alpha_{\text{nom}} = 8^\circ$, $\delta_v = 0^\circ$ - Continued

(f) WFVv, $M = 2.29$, $R = 1.87 \times 10^6$, $\alpha = 8.6^\circ$, $\delta_s = 0^\circ$

β , deg	C_N	C_M	C_B	C_N	C_M	C_B	β , deg
	Wing, left			Wing, right			
-10.19	.3823	-.0211	.1324	.2204	-.0215	.1563	-10.19
-8.14	.4079	-.0213	.1272	.2058	-.0193	.1587	-8.14
-6.08	.4218	-.0213	.1248	.1909	-.0151	.1607	-6.08
-4.06	.4226	-.0195	.1260	.2036	-.0135	.1587	-4.06
-2.05	.4250	-.0213	.1276	.2164	-.0119	.1567	-2.05
-0.02	.3823	-.0211	.1324	.2152	-.0119	.1555	-0.02
2.01	.3833	-.0211	.1336	.2278	-.0103	.1531	2.01
4.04	.3273	-.0209	.1408	.2401	-.0107	.1499	4.04
6.06	.3309	-.0227	.1435	.2415	-.0145	.1499	6.06
	Horizontal tail, left			Horizontal tail, right			
-10.19	.0000	.0000	.0000	.0000	.0000	.0000	-10.19
-8.14	.0000	.0000	.0000	.0000	.0000	.0000	-8.14
-6.08	.0000	.0000	.0000	.0000	.0000	.0000	-6.08
-4.06	.0000	.0000	.0000	.0000	.0000	.0000	-4.06
-2.05	.0000	.0000	.0000	.0000	.0000	.0000	-2.05
-0.02	.0000	.0000	.0000	.0000	.0000	.0000	-0.02
2.01	.0000	.0000	.0000	.0000	.0000	.0000	2.01
4.04	.0000	.0000	.0000	.0000	.0000	.0000	4.04
6.06	.0000	.0000	.0000	.0000	.0000	.0000	6.06
	Vertical tail, upper			Vertical tail, lower			
-10.19	.3097	-.0747	.1358	.4767	-.0529	.2114	-10.19
-8.14	.2422	-.0576	.1035	.3766	-.0323	.1695	-8.14
-6.08	.1851	-.0417	.0784	.2850	-.0148	.1209	-6.08
-4.06	.1293	-.0237	.0544	.1812	-.0070	.0728	-4.06
-2.05	.0506	-.0119	.0268	.0811	-.0011	.0313	-2.05
-0.02	.0076	.0016	.0016	-.0119	-.0039	.0028	-0.02
2.01	-.0459	.0137	.0280	-.0920	-.0004	-.0327	2.01
4.04	-.1229	.0278	.0571	-.1799	.0044	-.0757	4.04
6.06	-.1885	.0433	.0803	-.2880	.0166	-.1257	6.06

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TABLE XIV. - SURFACE LOADING CHARACTERISTICS FOR VARIOUS CONFIGURATIONS

THROUGHOUT AN ANGLE OF SIDESLIP RANGE: $\alpha_{\text{nom}} = 8^\circ$, $\delta_v = 0^\circ$ - Continued(g) WFFVv, $M = 2.98$, $R = 1.87 \times 10^6$, $\alpha = 8.4^\circ$, $\delta_s = 0^\circ$

β , deg	C_N	C_M	C_B	C_N	C_M	C_B	β , deg
	Wing, left			Wing, right			
-10.18	.4164	-.0145	.0925	-.0359	-.0076	.1284	-10.18
-8.11	.3957	-.0145	.0917	-.0385	-.0052	.1272	-8.11
-6.11	.4098	-.0123	.0877	-.0118	-.0018	.1212	-6.11
-4.04	.4079	-.0123	.0861	-.0100	.0030	.1212	-4.04
-2.05	.3889	-.0121	.0869	-.0078	.0058	.1240	-2.05
.00	.3516	-.0119	.0889	-.0078	.0058	.1240	.00
2.03	.3329	-.0119	.0901	-.0078	.0058	.1240	2.03
4.02	.2980	-.0139	.0933	-.0237	.0038	.1264	4.02
6.06	.2659	-.0183	.0985	-.0034	.0036	.1272	6.06
	Horizontal tail, left			Horizontal tail, right			
-10.18	.0000	.0000	.0000	.0000	.0000	.0000	-10.18
-8.11	.0000	.0000	.0000	.0000	.0000	.0000	-8.11
-6.11	.0000	.0000	.0000	.0000	.0000	.0000	-6.11
-4.04	.0000	.0000	.0000	.0000	.0000	.0000	-4.04
-2.05	.0000	.0000	.0000	.0000	.0000	.0000	-2.05
.00	.0000	.0000	.0000	.0000	.0000	.0000	.00
2.03	.0000	.0000	.0000	.0000	.0000	.0000	2.03
4.02	.0000	.0000	.0000	.0000	.0000	.0000	4.02
6.06	.0000	.0000	.0000	.0000	.0000	.0000	6.06
	Vertical tail, upper			Vertical tail, lower			
-10.18	.2515	-.0563	.1124	.4394	-.0710	.1921	-10.18
-8.11	.2052	-.0428	.0931	.3838	-.0598	.1661	-8.11
-6.11	.1456	-.0289	.0720	.2850	-.0439	.1272	-6.11
-4.04	.0887	-.0150	.0456	.1890	-.0273	.0759	-4.04
-2.05	.0499	-.0065	.0255	.0871	-.0081	.0381	-2.05
.00	.0037	.0000	-.0014	-.0052	-.0055	.0057	.00
2.03	-.0436	.0059	-.0248	-.1168	.0048	-.0247	2.03
4.02	-.0887	.0155	-.0452	-.1826	.0177	-.0759	4.02
6.06	-.1285	.0294	-.0695	-.2896	.0349	-.1186	6.06

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TABLE XIV. - SURFACE LOADING CHARACTERISTICS FOR VARIOUS CONFIGURATIONS

THROUGHOUT AN ANGLE OF SIDESLIP RANGE; $\alpha_{\text{nom}} = 8^{\circ}$, $\delta_v = 0^{\circ}$ - Concluded

(h) WVFVv, M = 4.65, R = 2.28×10^6 , $\alpha = 8.9^\circ$, $\delta_s = 0^\circ$

β , deg	C _N	C _M	C _B	C _N	C _M	C _B	β , deg
	Wing, left			Wing, right			
-10.13	.2824	-.0004	.0614	.1065	-.0173	.0702	-10.13
-8.09	.2583	-.0004	.0626	.0592	-.0161	.0746	-8.09
-6.08	.2589	-.0032	.0626	.0602	-.0129	.0770	-6.08
-4.05	.2351	-.0062	.0638	.0152	-.0088	.0833	-4.05
-2.02	.1875	-.0090	.0662	.0381	-.0062	.0825	-2.02
-.02	.1173	-.0088	.0722	.0864	-.0072	.0801	-.02
2.03	.1388	-.0088	.0690	.1364	-.0084	.0778	2.03
4.01	.0670	-.0058	.0746	.1596	-.0058	.0770	4.01
6.04	.0895	-.0058	.0714	.1615	-.0058	.0790	6.04
	Horizontal tail, left			Horizontal tail, right			
-10.13	.0000	.0000	.0000	.0000	.0000	.0000	-10.13
-8.09	.0000	.0000	.0000	.0000	.0000	.0000	-8.09
-6.08	.0000	.0000	.0000	.0000	.0000	.0000	-6.08
-4.05	.0000	.0000	.0000	.0000	.0000	.0000	-4.05
-2.02	.0000	.0000	.0000	.0000	.0000	.0000	-2.02
-.02	.0000	.0000	.0000	.0000	.0000	.0000	-.02
2.03	.0000	.0000	.0000	.0000	.0000	.0000	2.03
4.01	.0000	.0000	.0000	.0000	.0000	.0000	4.01
6.04	.0000	.0000	.0000	.0000	.0000	.0000	6.04
	Vertical tail, upper			Vertical tail, lower			
-10.13	.1974	-.0389	.0823	.4321	-.0732	.1269	-10.13
-8.09	.1616	-.0321	.0656	.3777	-.0745	.0839	-8.09
-6.08	.1238	-.0247	.0509	.2903	-.0611	.0535	-6.08
-4.05	.0854	-.0180	.0392	.2144	-.0498	.0210	-4.05
-2.02	.0465	-.0074	.0245	.1525	-.0321	-.0034	-2.02
-.02	.0048	.0007	-.0018	.0519	-.0087	-.0065	-.02
2.03	-.0406	.0074	-.0248	.0124	-.0002	-.0304	2.03
4.01	-.0776	.0165	-.0413	.0719	.0118	-.0646	4.01
6.04	-.1115	.0247	-.0534	-.1280	.0269	-.0896	6.04

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TABLE XV. - SURFACE LOADING CHARACTERISTICS FOR VARIOUS CONFIGURATIONS

THROUGHOUT AN ANGLE OF SIDESLIP RANGE; $\alpha_{\text{nom}} = 16^\circ$, $\delta_v = 0^\circ$ (a) WFHVv, $M = 2.29$, $R = 1.87 \times 10^6$, $\alpha = 16.9^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_s = 0^\circ$

β , deg	C_N	C_M	C_B	C_N	C_M	C_B	β , deg
	Wing, left			Wing, right			
-10.21	.5860	-.0503	.2843	.4970	-.0621	.2436	-10.21
-8.16	.5760	-.0483	.2771	.5177	-.0659	.2476	-8.16
-6.14	.5570	-.0464	.2759	.5229	-.0639	.2536	-6.14
-4.09	.5209	-.0477	.2731	.5279	-.0599	.2604	-4.09
-2.07	.4966	-.0458	.2676	.5311	-.0545	.2660	-2.07
.02	.4635	-.0491	.2668	.4910	-.0515	.2723	.02
2.04	.4449	-.0491	.2652	.4958	-.0495	.2779	2.04
4.04	.4244	-.0489	.2620	.5026	-.0493	.2847	4.04
6.07	.4043	-.0505	.2588	.5211	-.0495	.2883	6.07
	Horizontal tail, left			Horizontal tail, right			
-10.21	.4790	-.1621	.2827	.4940	-.0906	.2074	-10.21
-8.16	.4635	-.1591	.2783	.5128	-.0955	.2151	-8.16
-6.14	.4637	-.1539	.2698	.5275	-.1007	.2221	-6.14
-4.09	.4401	-.1460	.2656	.5463	-.1070	.2305	-4.09
-2.07	.4399	-.1394	.2602	.5463	-.1146	.2348	-2.07
.02	.3886	-.1264	.2554	.5898	-.1301	.2487	.02
2.04	.3645	-.1146	.2451	.6140	-.1391	.2529	2.04
4.04	.3371	-.1054	.2389	.6277	-.1455	.2576	4.04
6.07	.3319	-.1000	.2311	.6529	-.1518	.2630	6.07
	Vertical tail, upper			Vertical tail, lower			
-10.21	.3329	-.0957	.1496	.5837	-.0568	.2671	-10.21
-8.16	.2666	-.0818	.1193	.4677	-.0330	.2125	-8.16
-6.14	.2052	-.0592	.0924	.3508	-.0124	.1505	-6.14
-4.09	.1437	-.0394	.0640	.2298	-.0039	.0888	-4.09
-2.07	.0753	-.0214	.0305	.1147	-.0017	.0339	-2.07
.02	.0207	.0013	-.0039	.0019	-.0046	-.0003	.02
2.04	-.0568	.0235	-.0323	-.0853	-.0026	.0481	2.04
4.04	-.1221	.0427	-.0670	-.1997	-.0004	-.0981	4.04
6.07	-.1941	.0677	-.0940	-.3259	-.0105	-.1653	6.07

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139

TABLE XV. - SURFACE LOADING CHARACTERISTICS FOR VARIOUS CONFIGURATIONS

THROUGHOUT AN ANGLE OF SIDESLIP RANGE; $\alpha_{\text{nom}} = 16^\circ$, $\delta_v = 0^\circ$ - Continued

(b) WFHVv, $M = 2.98$, $R = 1.87 \times 10^6$, $\alpha = 16.7^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_S = 0^\circ$

β , deg	C_N	C_M	C_B	C_N	C_M	C_B	β , deg
	Wing, left			Wing, right			
-10.19	.5255	-.0364	.2420	.2653	-.0336	.2034	-10.19
-8.13	.5014	-.0362	.2384	.2363	-.0328	.2117	-8.13
-6.11	.4747	-.0338	.2333	.2607	-.0330	.2173	-6.11
-4.07	.4832	-.0338	.2245	.2824	-.0310	.2213	-4.07
-2.07	.4575	-.0358	.2193	.2718	-.0281	.2301	-2.07
-.02	.4336	-.0358	.2157	.3115	-.0265	.2337	-.02
2.01	.3917	-.0376	.2129	.3147	-.0217	.2384	2.01
4.03	.3658	-.0376	.2077	.3388	-.0219	.2440	4.03
6.07	.3420	-.0376	.2042	.3279	-.0213	.2516	6.07
	Horizontal tail, left			Horizontal tail, right			
-10.19	.3150	-.1011	.2017	.4772	-.0853	.1905	-10.19
-8.13	.3100	-.1029	.2029	.5040	-.0883	.1907	-8.13
-6.11	.2798	-.1030	.2058	.4878	-.0916	.1916	-6.11
-4.07	.2736	-.1015	.2067	.4872	-.0930	.1893	-4.07
-2.07	.3010	-.0997	.2023	.4882	-.0915	.1876	-2.07
-.02	.2581	-.0969	.2070	.4866	-.0947	.1867	-.02
2.01	.2715	-.0936	.2033	.5010	-.0946	.1859	2.01
4.03	.2926	-.0935	.2029	.5090	-.0930	.1849	4.03
6.07	.2962	-.0920	.2055	.5172	-.0915	.1849	6.07
	Vertical tail, upper			Vertical tail, lower			
-10.19	.2159	-.0605	.1037	.5741	-.1059	.2520	-10.19
-8.13	.1654	-.0461	.0780	.4912	-.0878	.2005	-8.13
-6.11	.1232	-.0325	.0585	.3891	-.0688	.1545	-6.11
-4.07	.0759	-.0188	.0346	.2632	-.0454	.1007	-4.07
-2.07	.0436	-.0093	.0223	.1278	-.0220	.0449	-2.07
-.02	.0065	.0005	-.0014	.0016	.0000	.0011	-.02
2.01	-.0076	.0093	-.0229	-.1297	.0227	-.0407	2.01
4.03	-.0548	.0188	-.0399	-.2476	.0457	-.0942	4.03
6.07	-.1010	.0361	-.0580	-.3742	.0657	-.1496	6.07

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TABLE XV. - SURFACE LOADING CHARACTERISTICS FOR VARIOUS CONFIGURATIONS

THROUGHOUT AN ANGLE OF SIDESLIP RANGE; $\alpha_{\text{nom}} = 16^\circ$, $\delta_v = 0^\circ$ - Continued(c) WFFHVv, $M = 4.65$, $R = 2.28 \times 10^6$, $\alpha = 17.1^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_s = 0^\circ$

β , deg	C_N	C_M	C_B	C_N	C_M	C_B	β , deg
	Wing, left			Wing, right			
-10.15	.4918	-.0277	.1595	.3839	-.0384	.1336	-10.15
-8.09	.4675	-.0275	.1607	.3726	-.0406	.1455	-8.09
-6.08	.4647	-.0275	.1587	.3594	-.0398	.1575	-6.08
-4.07	.3945	-.0300	.1643	.3855	-.0340	.1611	-4.07
-2.06	.3682	-.0328	.1635	.3670	-.0302	.1691	-2.06
.00	.2521	-.0354	.1739	.3448	-.0235	.1746	.00
2.00	.2008	-.0352	.1743	.3472	-.0235	.1766	2.00
3.97	.1931	-.0352	.1679	.3941	-.0215	.1746	3.97
6.02	.1609	-.0352	.1631	.3953	-.0183	.1770	6.02
	Horizontal tail, left			Horizontal tail, right			
-10.15	.2064	-.0653	.1309	.2924	-.0719	.1567	-10.15
-8.09	.2130	-.0676	.1343	.3024	-.0721	.1555	-8.09
-6.08	.1675	-.0677	.1460	.2928	-.0721	.1551	-6.08
-4.07	.2058	-.0718	.1449	.3038	-.0699	.1535	-4.07
-2.06	.2160	-.0760	.1492	.3136	-.0700	.1523	-2.06
.00	.1878	-.0804	.1593	.2870	-.0658	.1524	.00
2.00	.1942	-.0825	.1623	.3014	-.0597	.1452	2.00
3.97	.1711	-.0828	.1655	.2960	-.0536	.1405	3.97
6.02	.1711	-.0828	.1655	.2988	-.0494	.1364	6.02
	Vertical tail, upper			Vertical tail, lower			
-10.15	.1013	-.0219	.0495	.5861	-.1182	.1772	-10.15
-8.09	.0899	-.0180	.0353	.4604	-.0854	.1283	-8.09
-6.08	.0733	-.0121	.0310	.3620	-.0598	.0833	-6.08
-4.07	.0577	-.0088	.0206	.2548	-.0367	.0361	-4.07
-2.06	.0361	-.0047	.0108	.1395	-.0140	.0100	-2.06
.00	.0134	.0007	-.0028	.0647	.0077	.0165	.00
2.00	.0061	.0046	-.0119	-.0325	.0229	-.0361	2.00
3.97	-.0056	.0080	-.0202	-.1257	.0448	-.0700	3.97
6.02	-.0202	.0119	-.0268	-.1913	.0646	-.1158	6.02

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141

TABLE XV. - SURFACE LOADING CHARACTERISTICS FOR VARIOUS CONFIGURATIONS

THROUGHOUT AN ANGLE OF SIDESLIP RANGE; $\alpha_{\text{nom}} = 16^\circ$, $\delta_v = 0^\circ$ - Continued(d) WFHVv, $M = 2.29$, $R = 1.87 \times 10^6$, $\alpha = 16.9^\circ$, $\delta_{H,L} = \delta_{H,R} = 0^\circ$, $\delta_s = 35^\circ$

β , deg	C_N	C_M	C_B	C_N	C_M	C_B	β , deg
	Wing, left			Wing, right			
-10.21	.5981	-.0597	.2783	.4802	-.0585	.2432	-10.21
-6.17	.5686	-.0539	.2699	.5197	-.0583	.2528	-6.17
-4.10	.5321	-.0535	.2676	.5235	-.0543	.2584	-4.10
-2.09	.5237	-.0535	.2612	.5427	-.0525	.2632	-2.09
-0.02	.4613	-.0567	.2632	.4860	-.0479	.2688	-0.02
2.01	.4579	-.0567	.2604	.4773	-.0456	.2763	2.01
4.05	.4224	-.0581	.2584	.4966	-.0438	.2811	4.05
6.10	.4039	-.0581	.2564	.5169	-.0440	.2863	6.10
	Horizontal tail, left			Horizontal tail, right			
-10.21	.5483	-.1980	.2958	.4832	-.0908	.2024	-10.21
-6.17	.5529	-.2018	.2975	.5359	-.1086	.2191	-6.17
-4.10	.5361	-.1912	.2909	.5567	-.1202	.2290	-4.10
-2.09	.5062	-.1713	.2760	.5683	-.1381	.2427	-2.09
-0.02	.4425	-.1504	.2628	.6367	-.1536	.2500	-0.02
2.01	.4018	-.1318	.2487	.6796	-.1778	.2705	2.01
4.05	.3906	-.1171	.2362	.6920	-.1945	.2842	4.05
6.10	.3657	-.1067	.2283	.7048	-.1947	.2805	6.10
	Vertical tail, upper			Vertical tail, lower			
-10.21	.3248	-.0994	.1546	.5933	-.0710	.2591	-10.21
-6.17	.2010	-.0626	.0959	.3555	-.0255	.1488	-6.17
-4.10	.1562	-.0489	.0693	.2362	-.0079	.0919	-4.10
-2.09	.0722	-.0260	.0323	.1117	-.0009	.0316	-2.09
-0.02	.0020	.0016	-.0028	.0168	-.0018	.0111	-0.02
2.01	-.0680	.0265	-.0335	-.0740	-.0009	.0555	2.01
4.05	-.1437	.0497	-.0707	-.2058	.0079	.1061	4.05
6.10	-.2078	.0661	-.0947	-.3282	.0253	-.1738	6.10
	Speed brakes, upper			Speed brakes, lower			
-10.21	.5351	-.0600	.2267	1.7807	-.1817	.8695	-10.21
-6.17	.3593	-.1152	.1226	1.7404	-.1524	.8297	-6.17
-4.10	.2740	-.1108	.0949	1.7100	-.1715	.8058	-4.10
-2.09	.4607	-.1340	.1861	1.6673	-.1669	.7833	-2.09
-0.02	.6279	-.1207	.2936	1.6992	-.1626	.8175	-0.02
2.01	.6548	-.1442	.3292	1.5856	-.1583	.7582	2.01
4.05	.6885	-.1677	.3663	1.4782	-.1641	.7177	4.05
6.10	.7879	-.2004	.4222	1.3865	-.1647	.6731	6.10

TABLE XV. - SURFACE LOADING CHARACTERISTICS FOR VARIOUS CONFIGURATIONS

THROUGHOUT AN ANGLE OF SIDESLIP RANGE; $\alpha_{\text{nom}} = 16^{\circ}$, $\delta_v = 0^{\circ}$ - Continued(e) WFFVV, $M = 4.65$, $R = 2.28 \times 10^6$, $\alpha = 17.1^{\circ}$, $\delta_{H,L} = \delta_{H,R} = 0^{\circ}$, $\delta_s = 35^{\circ}$

β , deg	C_N	C_M	C_B	C_N	C_M	C_B	β , deg
	Wing, left			Wing, right			
-10.09	.5074	-.0189	.1523	.2397	-.0352	.1412	-10.09
-8.06	.5277	-.0221	.1467	.2487	-.0350	.1499	-8.06
-6.06	.5038	-.0249	.1479	.2353	-.0336	.1619	-6.06
-4.02	.4771	-.0277	.1471	.2421	-.0334	.1683	-4.02
-2.06	.4280	-.0275	.1499	.2696	-.0306	.1719	-2.06
-0.04	.3367	-.0328	.1591	.2477	-.0300	.1750	-0.04
1.96	.2591	-.0267	.1607	.2475	-.0239	.1774	1.96
3.99	.2310	-.0324	.1575	.2473	-.0175	.1798	3.99
6.02	.1988	-.0324	.1527	.2692	-.0119	.1790	6.02
	Horizontal tail, left			Horizontal tail, right			
-10.09	.1884	-.0806	.1391	.2740	-.0722	.1563	-10.09
-8.06	.1880	-.0851	.1430	.2934	-.0724	.1554	-8.06
-6.06	.1888	-.0851	.1488	.3048	-.0702	.1522	-6.06
-4.02	.1461	-.0808	.1580	.3046	-.0700	.1518	-4.02
-2.06	.1661	-.0786	.1589	.2964	-.0682	.1514	-2.06
-0.04	.1842	-.0829	.1623	.2796	-.0639	.1523	-0.04
1.96	.1948	-.0829	.1627	.2938	-.0578	.1450	1.96
3.99	.1802	-.0851	.1649	.3052	-.0558	.1394	3.99
6.02	.1417	-.0851	.1707	.3249	-.0558	.1367	6.02
	Vertical tail, upper			Vertical tail, lower			
-10.09	.0975	-.0260	.0596	.5919	-.1313	.1809	-10.09
-8.06	.0826	-.0186	.0408	.4614	-.0974	.1343	-8.06
-6.06	.0649	-.0126	.0360	.3502	-.0679	.0862	-6.06
-4.02	.0358	-.0067	.0225	.2331	-.0441	.0427	-4.02
-2.06	.0171	-.0039	.0108	.1388	-.0205	.0119	-2.06
-0.04	.0089	.0013	-.0018	.0836	-.0002	.0239	-0.04
1.96	-.0059	.0061	-.0085	.0581	.0186	-.0358	1.96
3.99	-.0176	.0087	.0167	.1215	.0402	-.0688	3.99
6.02	-.0537	.0147	-.0303	.2196	.0603	-.1013	6.02
	Speed brakes, upper			Speed brakes, lower			
-10.09	.3718	-.0009	.2338	3.5212	-.3191	1.7149	-10.09
-8.06	.2265	-.0080	.1461	3.3481	-.3130	1.6519	-8.06
-6.06	.0878	-.0376	.0579	3.1900	-.2997	1.6147	-6.06
-4.02	.0444	-.0450	.0405	2.8564	-.2782	1.4484	-4.02
-2.06	.0404	-.0673	.0326	2.5820	-.2570	1.3243	-2.06
-0.04	.0634	-.0222	.0438	2.2948	-.2515	1.2022	-0.04
1.96	.1076	.0148	.0592	2.0204	-.2374	1.0628	1.96
3.99	.1179	.0146	.0738	1.7728	-.2394	.9624	3.99
6.02	.0911	.0072	.0603	1.4130	-.2181	.7781	6.02

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143

TABLE XV-- SURFACE LOADING CHARACTERISTICS FOR VARIOUS CONFIGURATIONS

THROUGHOUT AN ANGLE OF SIDESLIP RANGE; $\alpha_{\text{nom}} = 16^\circ$, $\delta_v = 0^\circ$ - Continued

(f) WFFVv, $M = 2.29$, $R = 1.87 \times 10^6$, $\alpha = 17.0^\circ$, $\delta_s = 0^\circ$

β , deg	C_N	C_M	C_B	C_N	C_M	C_B	β , deg	
	Wing, left				Wing, right			
-10.23	.6454	-.0581	.2771	.4222	-.0571	.2476	-10.23	
-8.18	.6368	-.0563	.2707	.4438	-.0571	.2540	-8.18	
-6.12	.6033	-.0541	.2711	.4631	-.0553	.2588	-6.12	
-4.09	.5834	-.0557	.2684	.4533	-.0531	.2652	-4.09	
-2.06	.5429	-.0535	.2632	.4717	-.0493	.2699	-2.06	
-0.02	.5090	-.0569	.2620	.4033	-.0477	.2783	-0.02	
2.02	.4745	-.0565	.2608	.4077	-.0456	.2839	2.02	
4.04	.4549	-.0583	.2580	.4011	-.0472	.2915	4.04	
6.09	.4501	-.0599	.2540	.4467	-.0460	.2919	6.09	

	Vertical tail, upper				Vertical tail, lower			
-10.23	.3315	-.0986	.1505	.5809	-.0601	.2674	-10.23	
-8.18	.2627	-.0837	.1209	.4634	-.0358	.2114	-8.18	
-6.12	.1962	-.0594	.0936	.3427	-.0129	.1508	-6.12	
-4.09	.1360	-.0402	.0658	.2245	-.0033	.0913	-4.09	
-2.06	.0669	-.0226	.0319	.1040	-.0004	.0361	-2.06	
-0.02	.0079	.0003	-.0016	-.0082	-.0044	.0011	-0.02	
2.02	-.0551	.0242	-.0353	-.1004	-.0024	.0464	2.02	
4.04	-.1280	.0432	-.0677	-.2189	-.0011	.1021	4.04	
6.09	-.2089	.0705	-.0950	-.3397	-.0129	.1644	6.09	

TABLE XV. - SURFACE LOADING CHARACTERISTICS FOR VARIOUS CONFIGURATIONS

THROUGHOUT AN ANGLE OF SIDESLIP RANGE; $\alpha_{nom} = 16^\circ$, $\delta_v = 0^\circ$ - Continued(g) WFFVv, $M = 2.98$, $R = 1.87 \times 10^6$, $\alpha = 16.7^\circ$, $\delta_s = 0^\circ$

β , deg	C_N	C_M	C_B	C_N	C_M	C_B	β , deg	
	Wing, left				Wing, right			
-10.18	.5676	-.0422	.2365	.1925	-.0312	.2073	-10.18	
-8.12	.5608	-.0400	.2317	.2160	-.0314	.2113	-8.12	
-6.11	.5520	-.0376	.2257	.2395	-.0316	.2153	-6.11	
-4.07	.5612	-.0376	.2169	.2429	-.0269	.2205	-4.07	
-2.03	.5339	-.0398	.2101	.2678	-.0247	.2269	-2.03	
-0.04	.4727	-.0416	.2093	.2722	-.0245	.2313	-0.04	
2.03	.4455	-.0414	.2042	.2431	-.0213	.2416	2.03	
4.02	.4212	-.0436	.2002	.2848	-.0219	.2448	4.02	
6.08	.3963	-.0434	.1962	.2750	-.0213	.2536	6.08	

	Vertical tail, upper				Vertical tail, lower			
-10.18	.2094	-.0610	.1053	.5751	-.0957	.2515	-10.18	
-8.12	.1604	-.0471	.0801	.4758	-.0751	.2085	-8.12	
-6.11	.1089	-.0321	.0564	.3801	-.0518	.1584	-6.11	
-4.07	.0680	-.0193	.0378	.2521	-.0306	.1072	-4.07	
-2.03	.0359	-.0101	.0232	.1221	-.0131	.0509	-2.03	
-0.04	.0048	.0000	.0000	.0114	-.0072	.0026	-0.04	
2.03	-.0134	.0096	-.0218	-.1336	.0101	-.0393	2.03	
4.02	-.0574	.0188	-.0395	-.2404	.0262	-.0947	4.02	
6.08	-.1056	.0342	-.0560	-.3719	.0476	-.1488	6.08	

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145

TABLE XV.- SURFACE LOADING CHARACTERISTICS FOR VARIOUS CONFIGURATIONS

THROUGHOUT AN ANGLE OF SIDESLIP RANGE; $\alpha_{\text{nom}} = 16^\circ$, $\delta_v = 0^\circ$ - Concluded(h) WFFV_v, $M = 4.65$, $R = 2.28 \times 10^6$, $\alpha = 17.1^\circ$, $\delta_s = 0^\circ$

β , deg	C_N	C_M	C_B	C_N	C_M	C_B	β , deg
	Wing, left			Wing, right			
-10.11	.5401	-.0221	.1571	.2647	-.0326	.1420	-10.11
-8.09	.5153	-.0219	.1583	.2004	-.0302	.1539	-8.09
-6.08	.4663	-.0217	.1611	.2118	-.0298	.1651	-6.08
-4.05	.4176	-.0243	.1635	.2172	-.0267	.1715	-4.05
-2.04	.3696	-.0271	.1659	.1986	-.0229	.1794	-2.04
-0.02	.3221	-.0328	.1683	.2481	-.0207	.1794	-0.02
2.02	.2916	-.0296	.1655	.2491	-.0175	.1818	2.02
4.01	.2627	-.0324	.1623	.2501	-.0143	.1842	4.01
6.04	.2054	-.0294	.1587	.2754	-.0117	.1850	6.04

	Vertical tail, upper			Vertical tail, lower			
-10.11	.0908	-.0219	.0507	.5688	-.1081	.1832	-10.11
-8.09	.0834	-.0173	.0383	.4712	-.1074	.1331	-8.09
-6.08	.0672	-.0114	.0310	.3651	-.0863	.0905	-6.08
-4.05	.0397	-.0080	.0213	.2605	-.0642	.0449	-4.05
-2.04	.0180	-.0041	.0083	.1537	-.0433	.0139	-2.04
-0.02	.0126	.0013	-.0025	.0490	-.0077	-.0085	-0.02
2.02	-.0048	.0054	-.0110	-.0629	.0030	-.0302	2.02
4.01	-.0148	.0087	-.0184	-.1427	.0212	-.0609	4.01
6.04	-.0387	.0128	-.0296	-.2175	.0386	-.1035	6.04

146

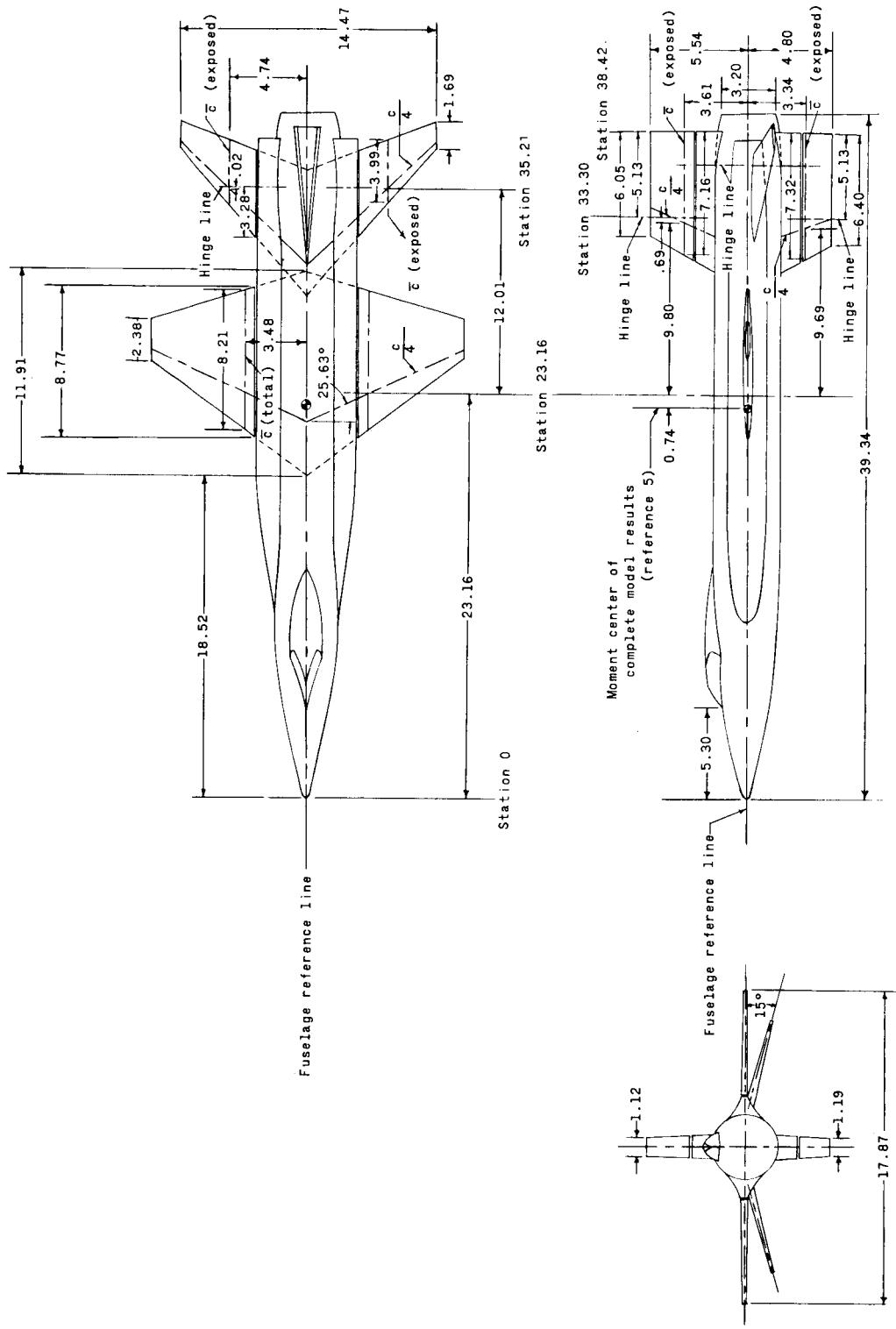
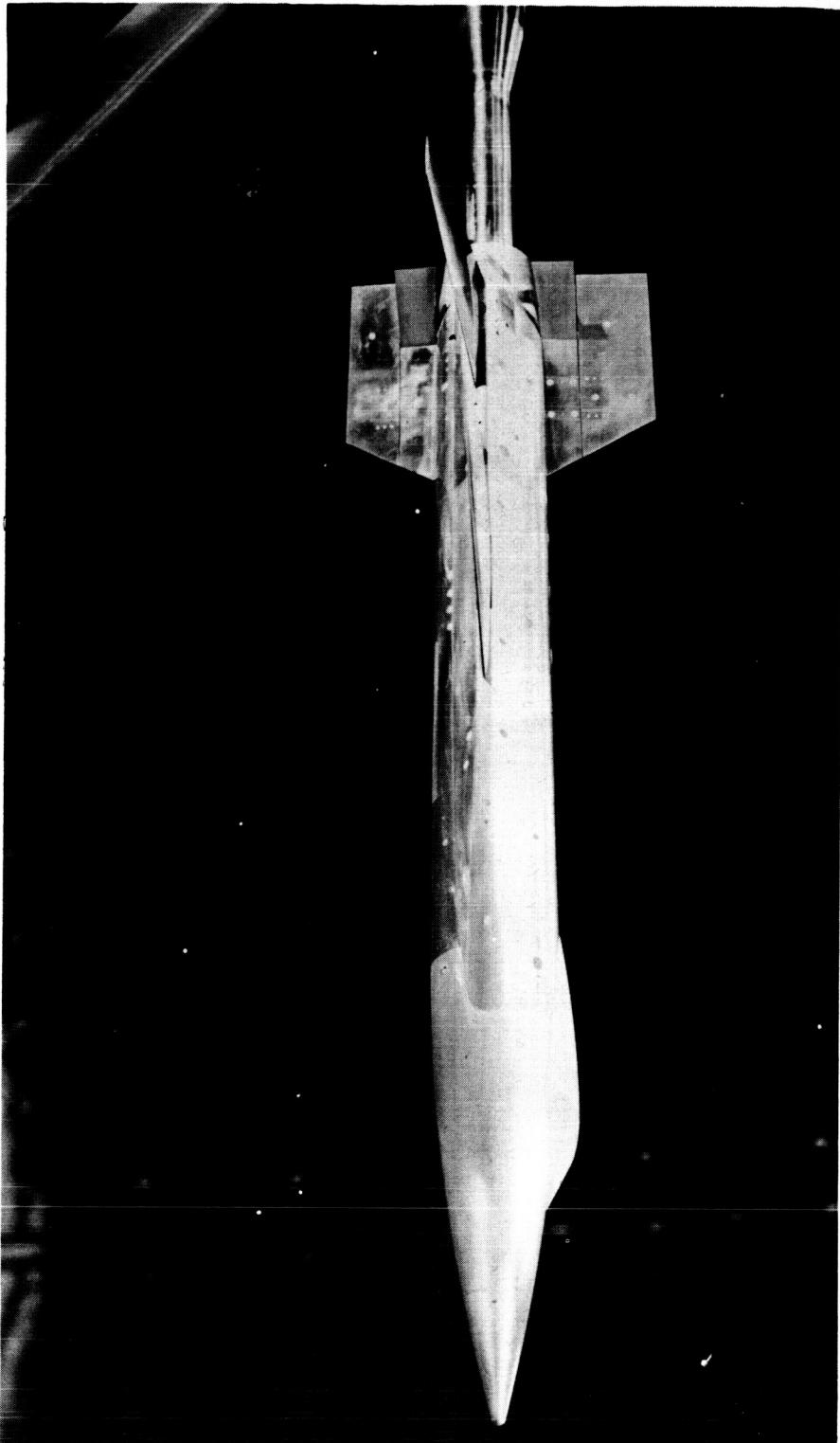


Figure 1.- Details of the 0.067-scale model of the X-15 airplane. (Dimensions are in inches unless otherwise noted.)

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(a) Side view.

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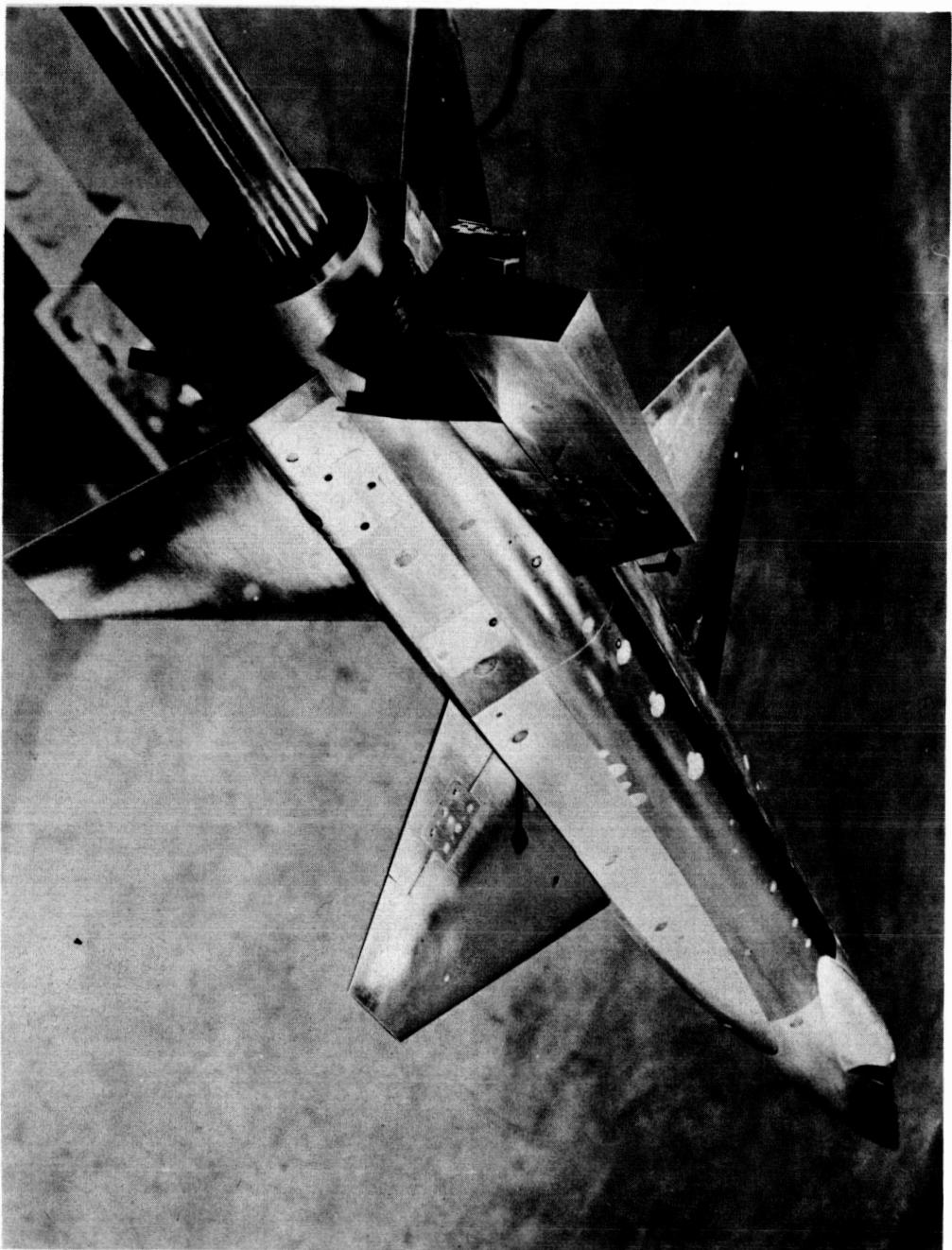
Figure 2.- Photographs of a 0.067-scale model of the North American X-15 airplane.

147

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(b) Three-quarter rear view.
Figure 2.- Continued.

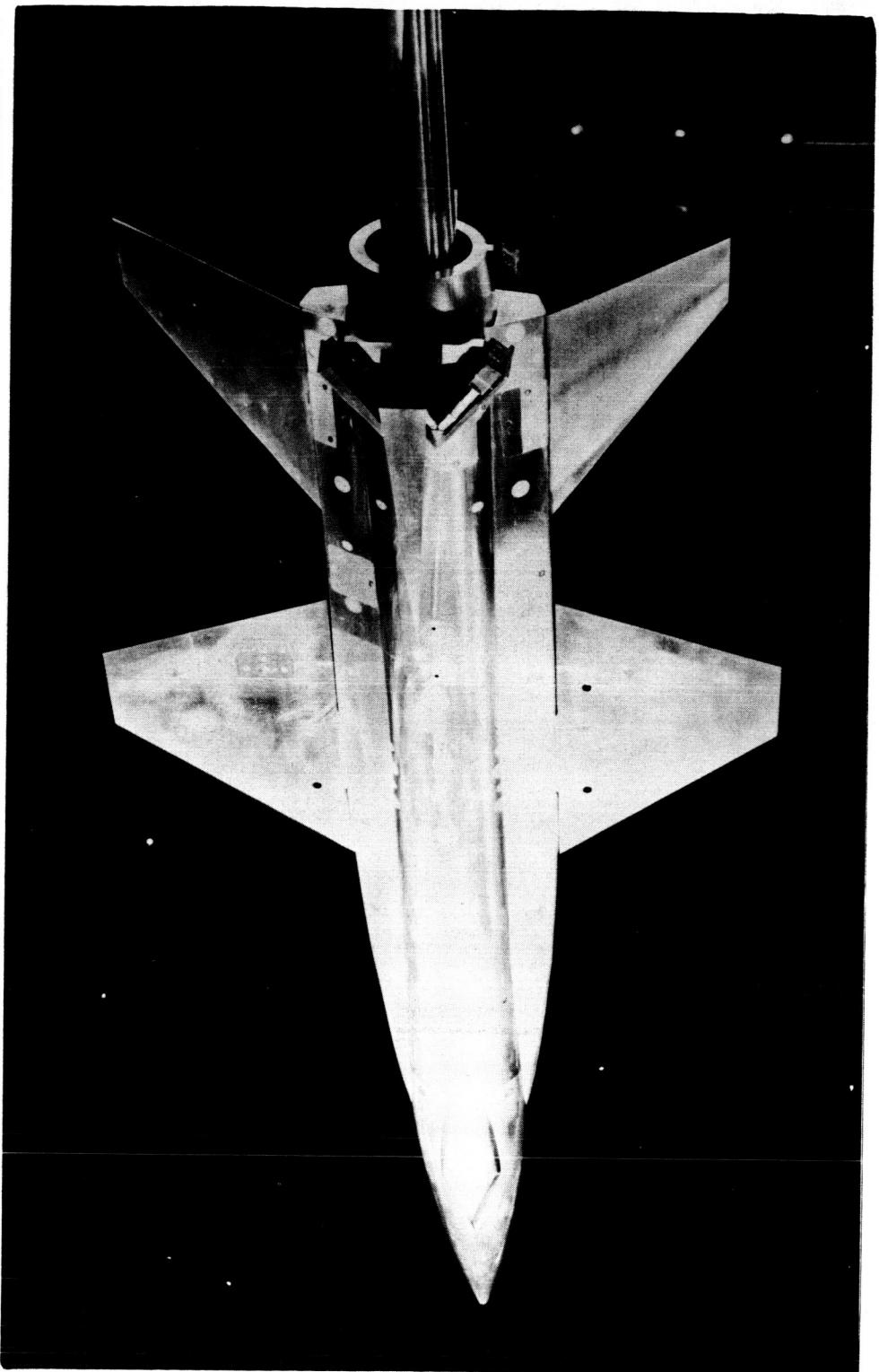
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148

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(c) Top view.

Figure 2.- Continued.

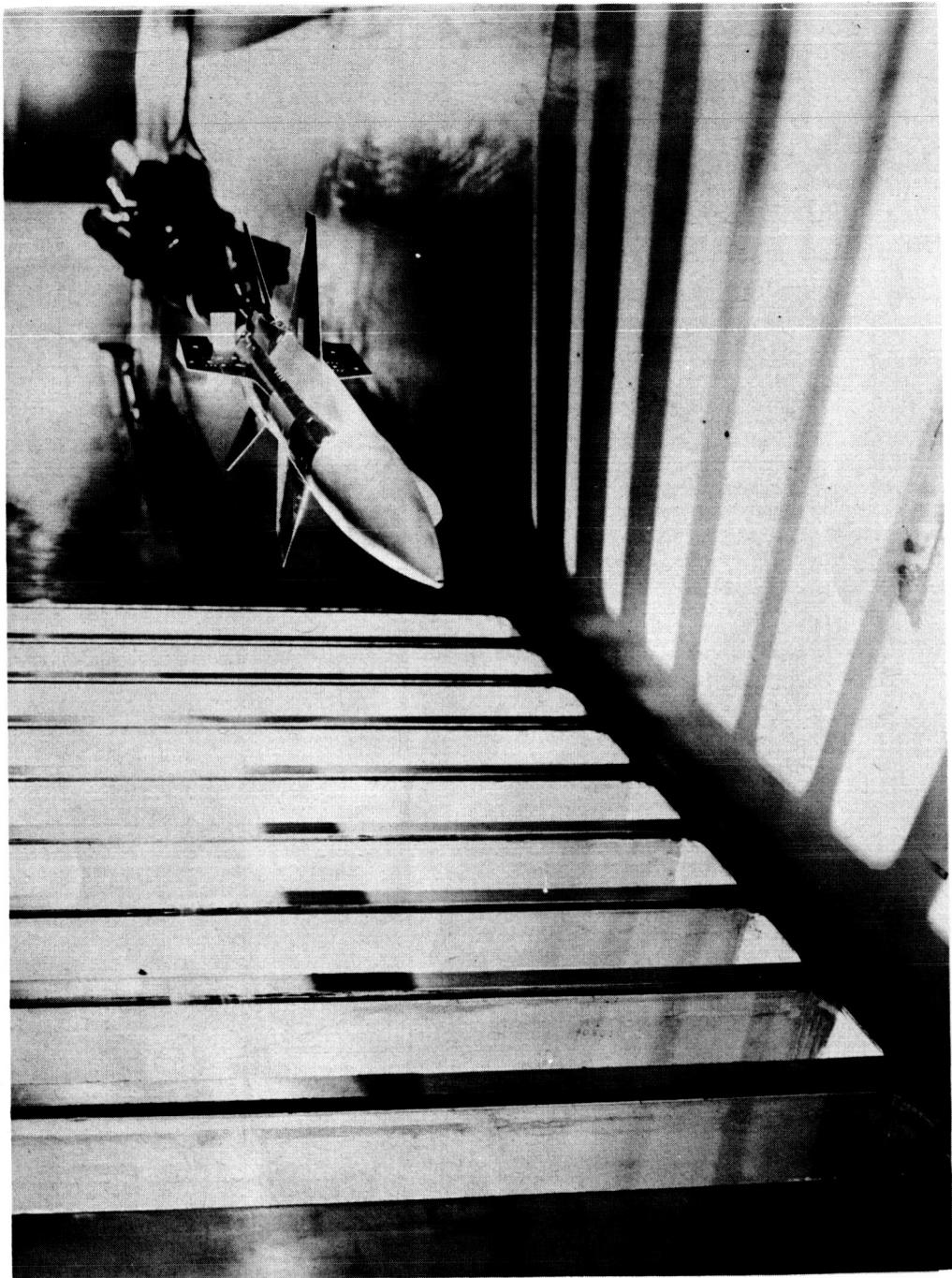
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149

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(d) Quarter front view.
Figure 2.- Concluded.

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150

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151

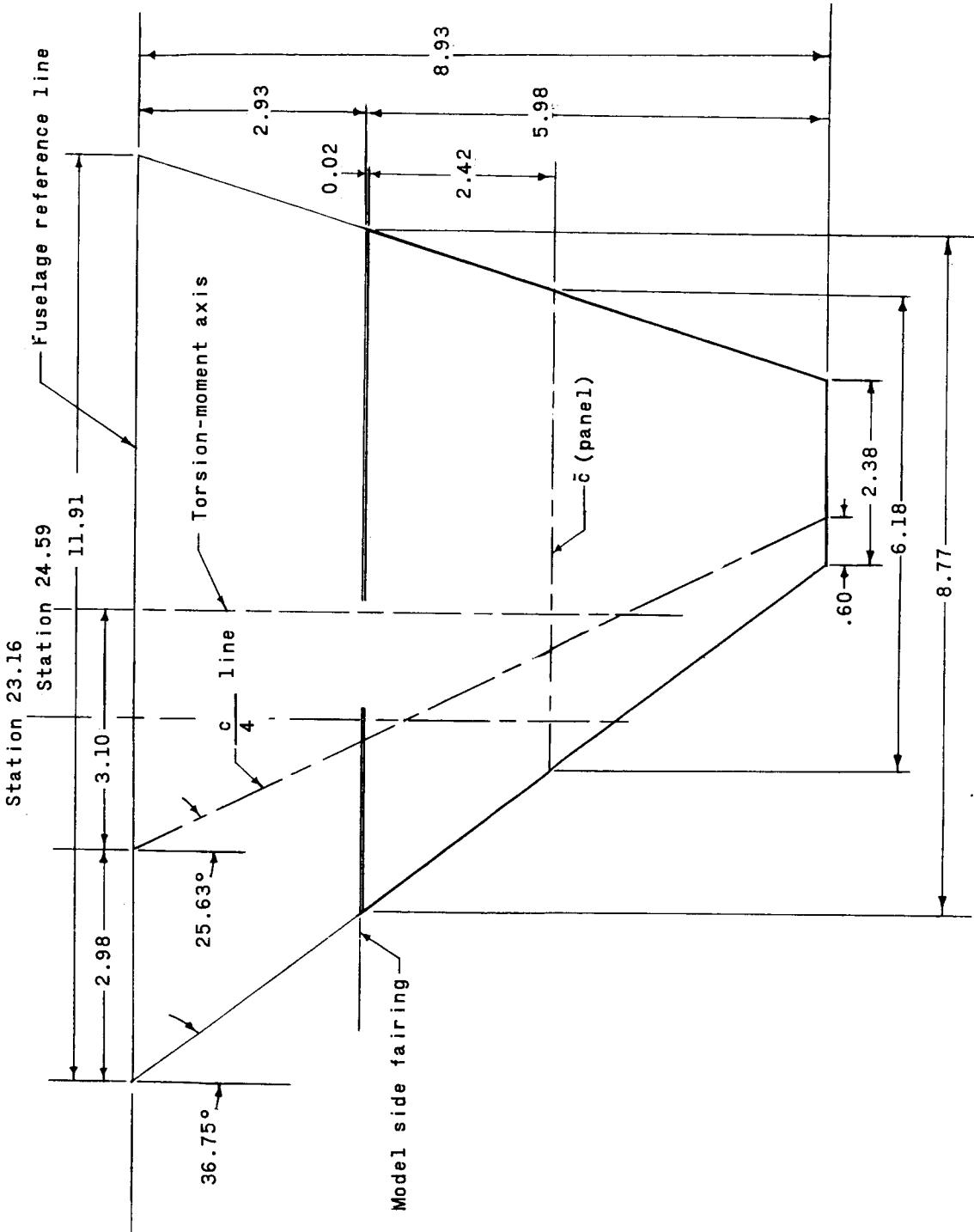


Figure 3.- Drawing of the wing panel. Dimensions are in inches unless otherwise noted.

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152

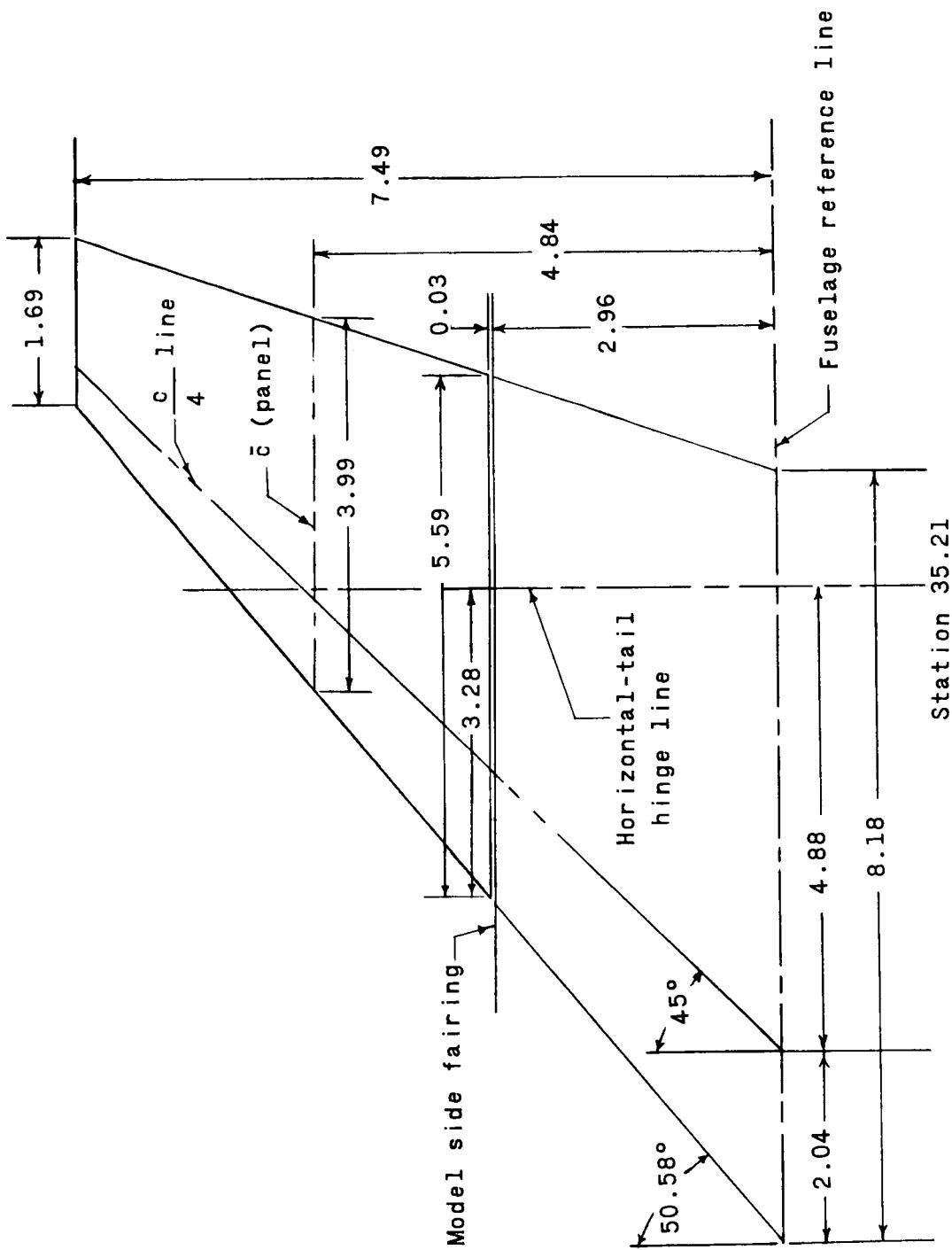
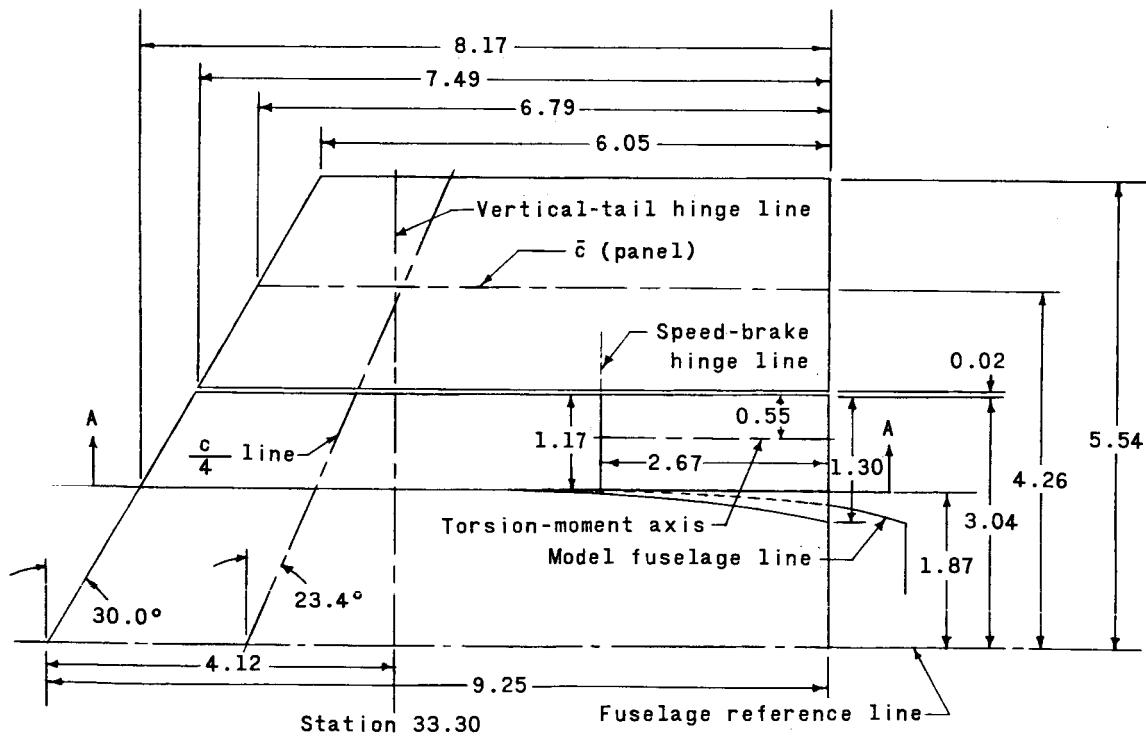
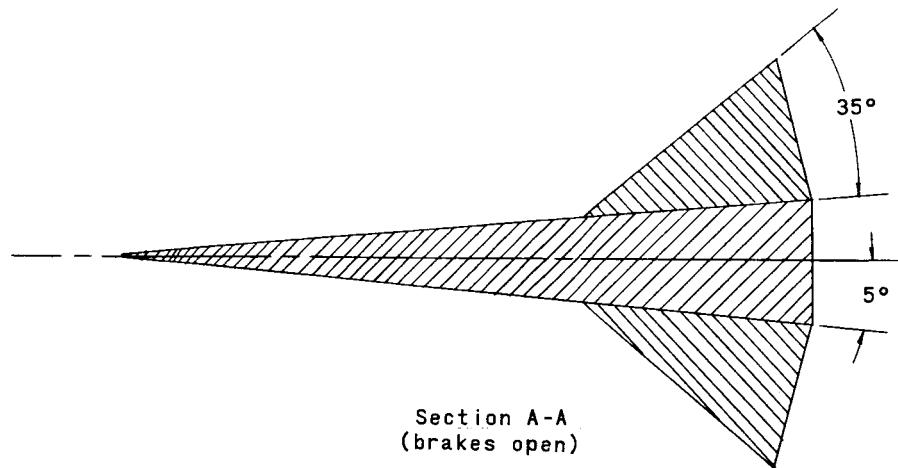


Figure 4.- Drawing of the horizontal tail. All dimensions are measured in the chord plane of the surface and are in inches unless otherwise noted.

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153

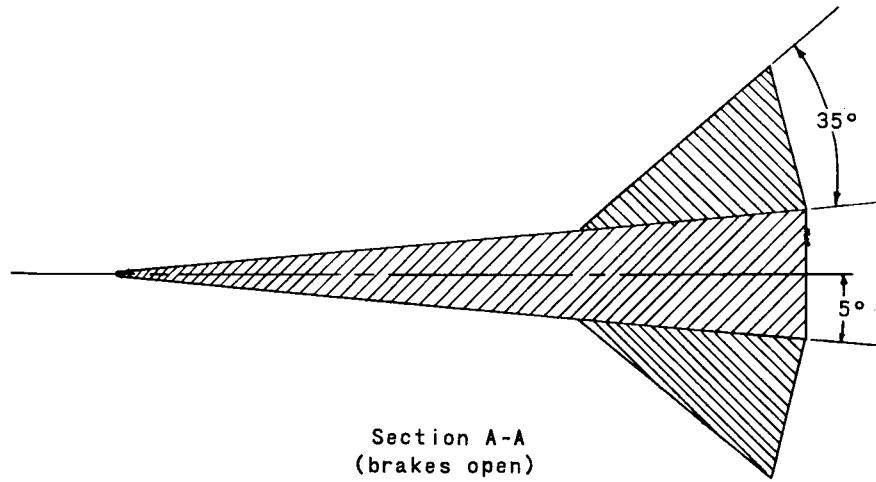
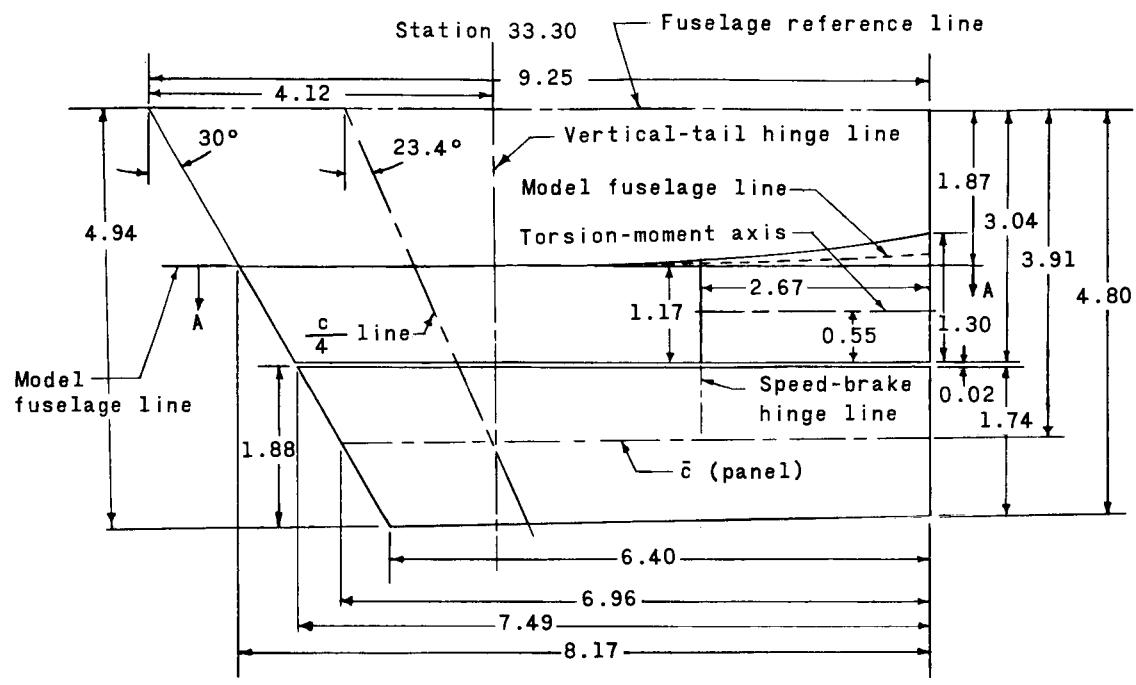


(a) Upper vertical tail.

Figure 5.- Drawing of the upper and lower vertical tails. Dimensions are in inches unless otherwise noted.

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154



(b) Lower vertical tail.

Figure 5.- Concluded.

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155

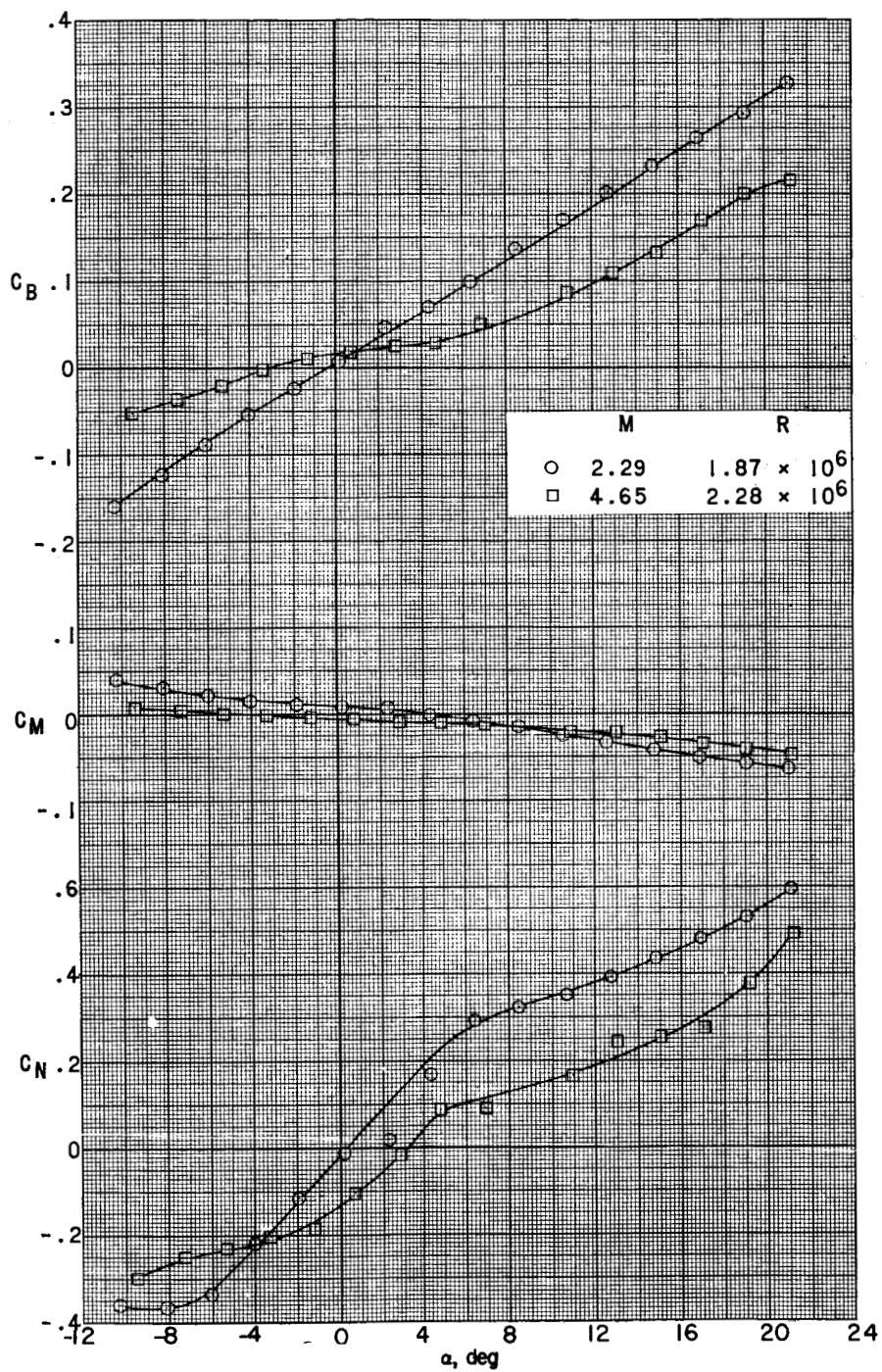
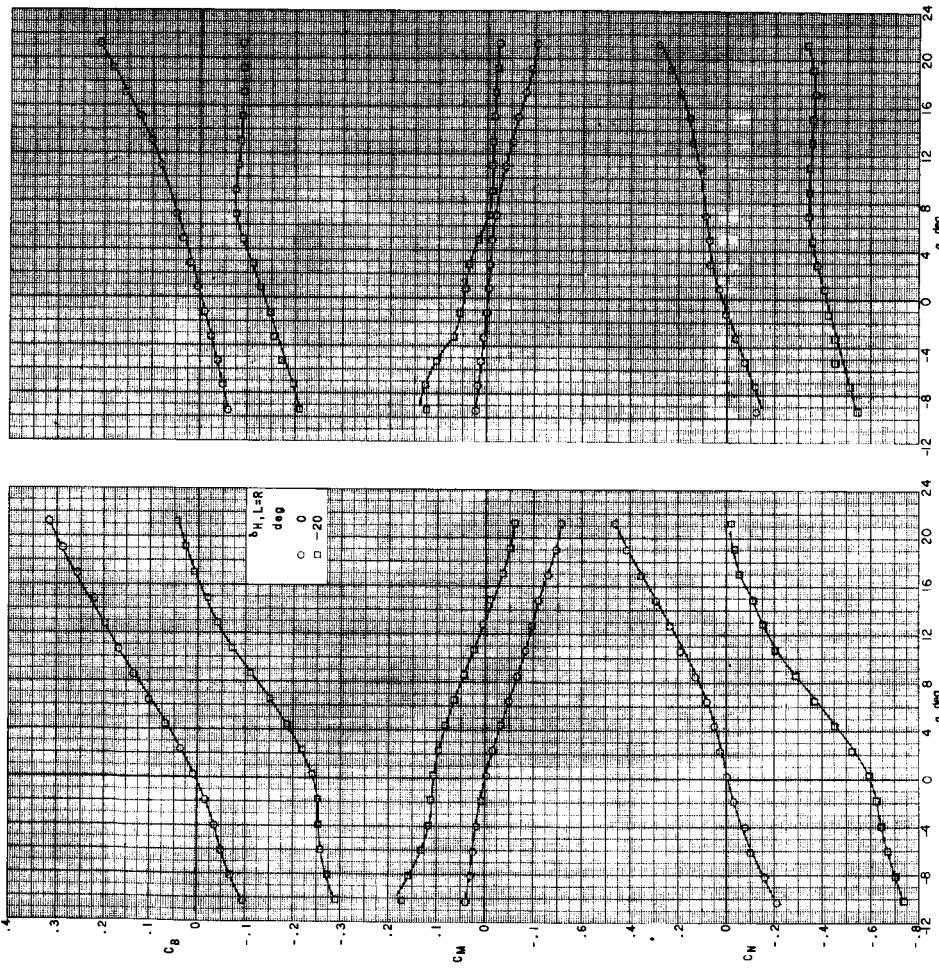


Figure 6.- Surface loading characteristics on the left wing panel.
WFHVv; $\beta = 0^\circ$; $\delta_{H,L} = \delta_{H,R} = 0^\circ$; $\delta_v = 0^\circ$; $\delta_s = 0^\circ$.

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156



(a) $M = 2.29$; $R = 1.87 \times 10^6$. (b) $M = 4.65$; $R = 2.28 \times 10^6$.

Figure 7.- Surface loading characteristics on the left horizontal-tail panel. WFFHV; $\beta = 0^\circ$; $\delta_V = 0^\circ$; $\delta_S = 0^\circ$.

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157

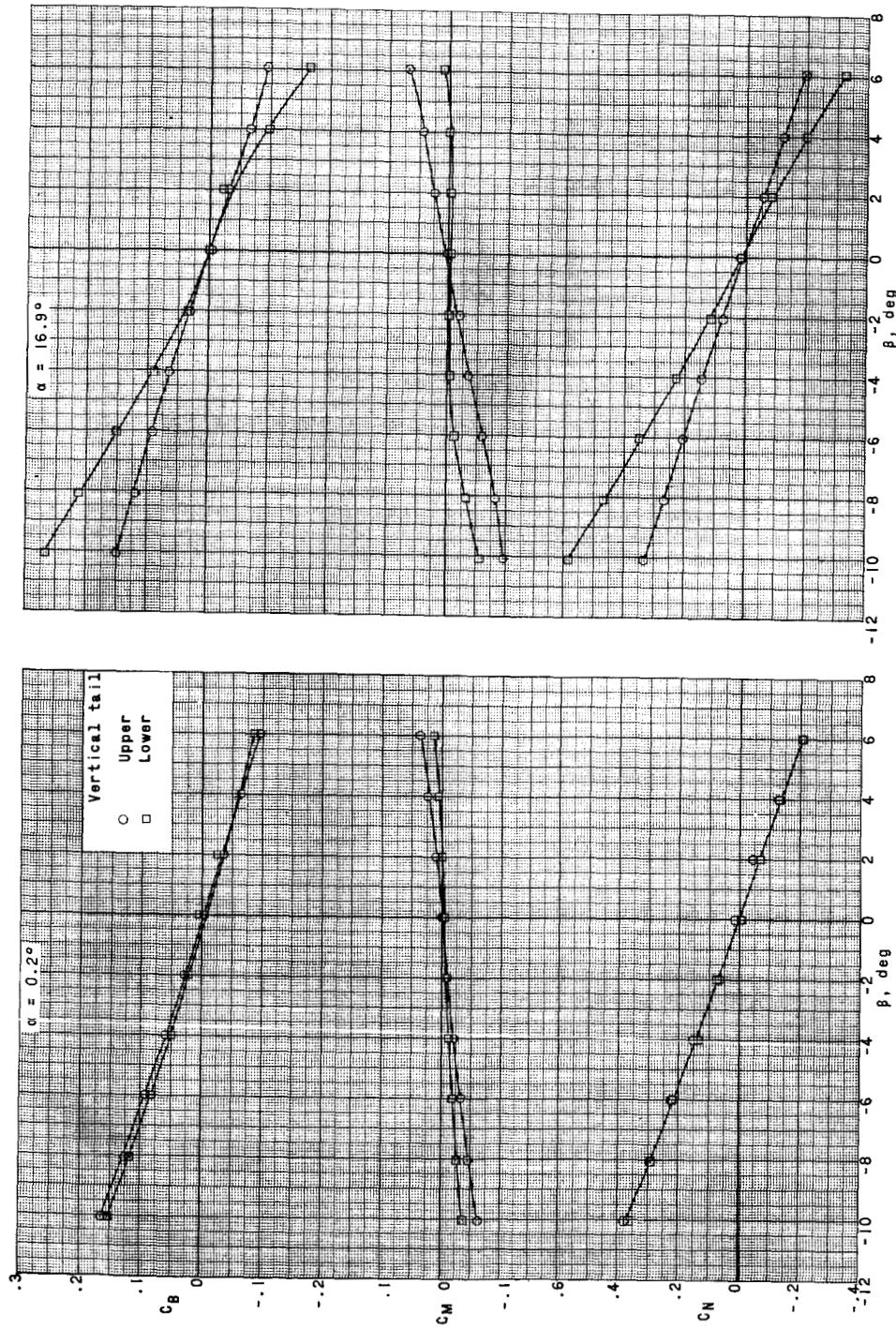
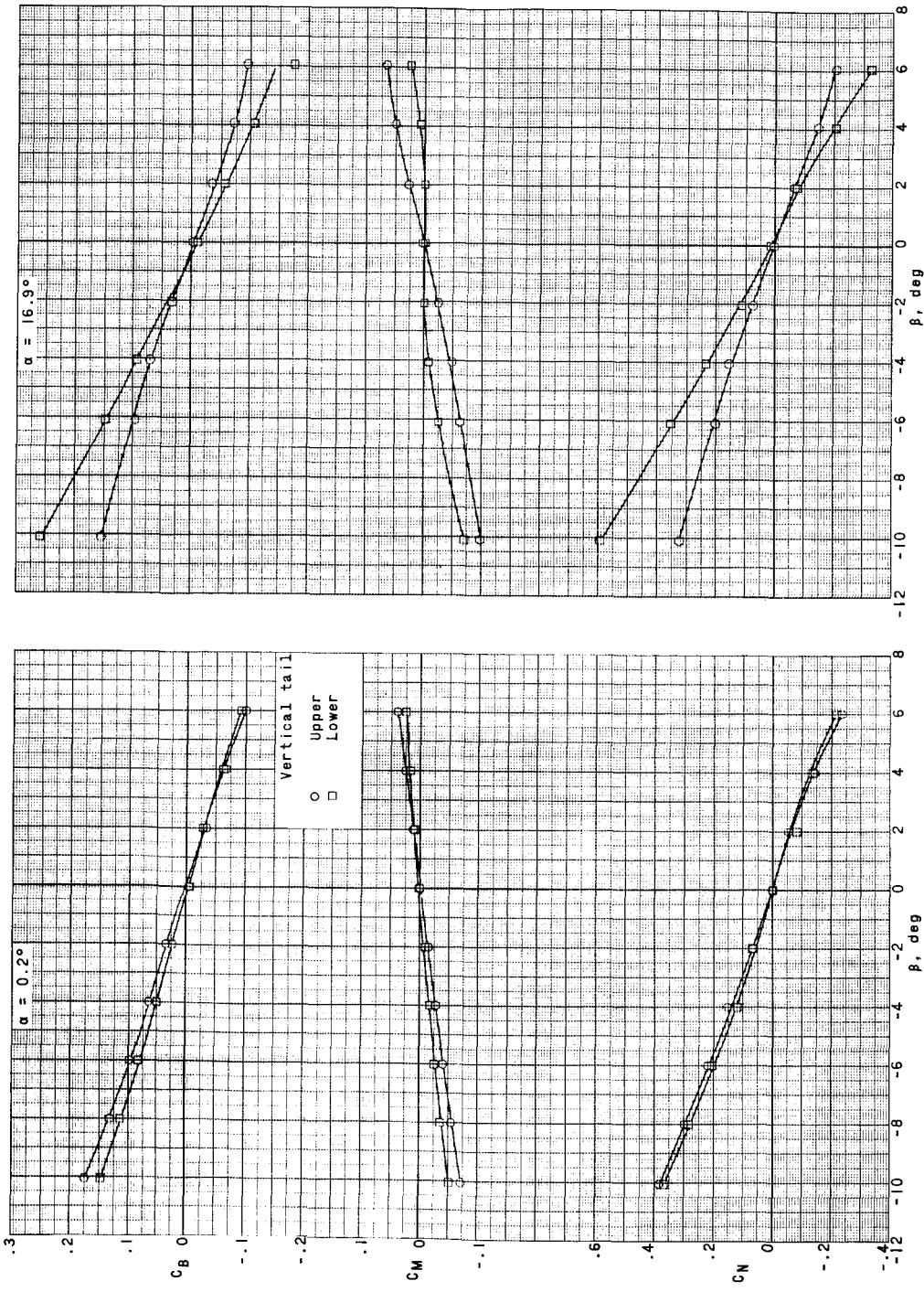
(a) $M = 2.29; \delta_s = 0^\circ; R = 1.87 \times 10^6$.

Figure 8.- Surface loading characteristics on the vertical-tail panels. $WFHv; \delta_{H,L} = \delta_{H,R} = 0^\circ;$
 $\delta_V = 0^\circ$.

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158



(b) $M = 2.29; \delta_S = 350; R = 1.87 \times 10^6$.

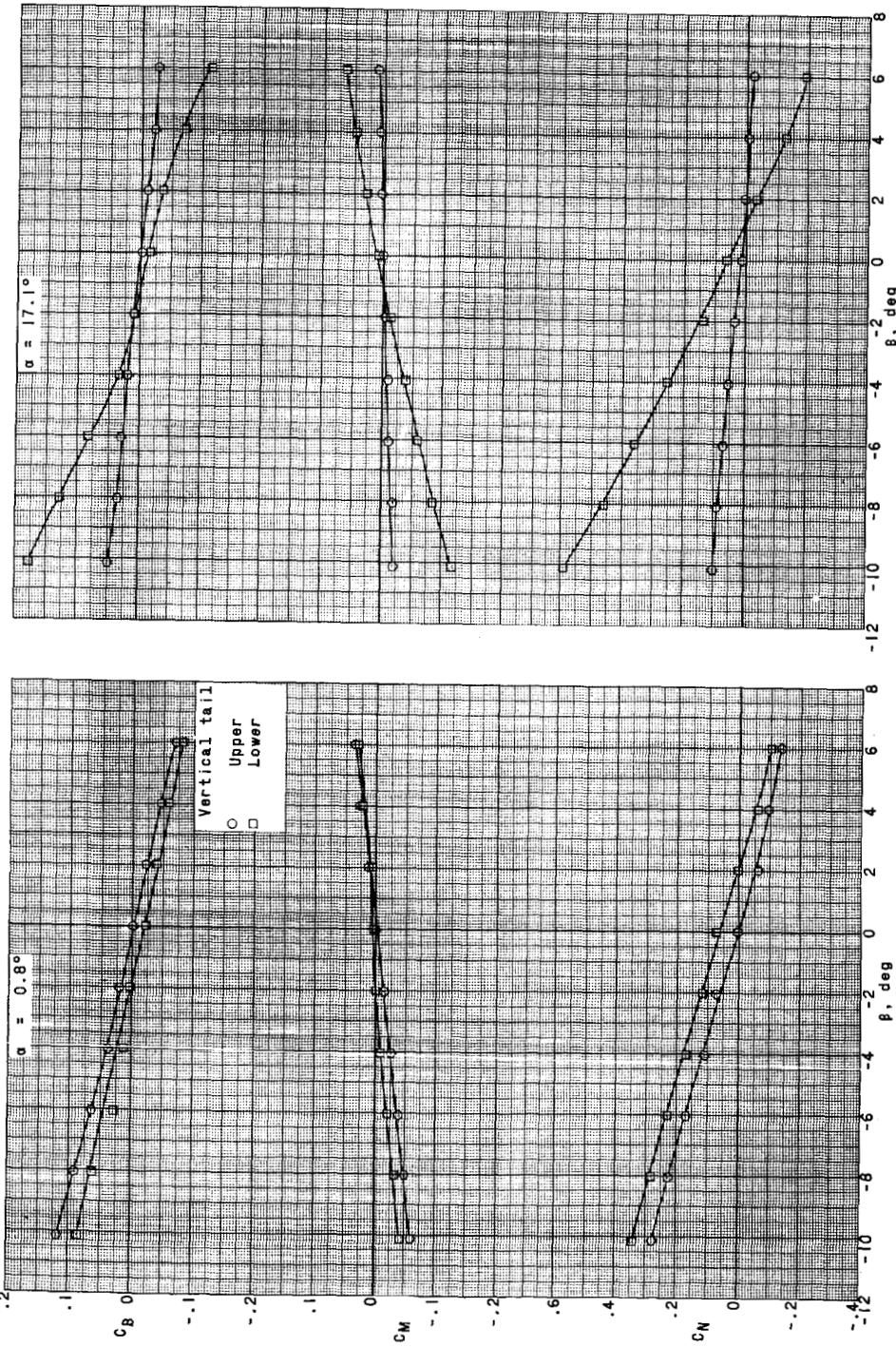
Figure 8.- Continued.

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159

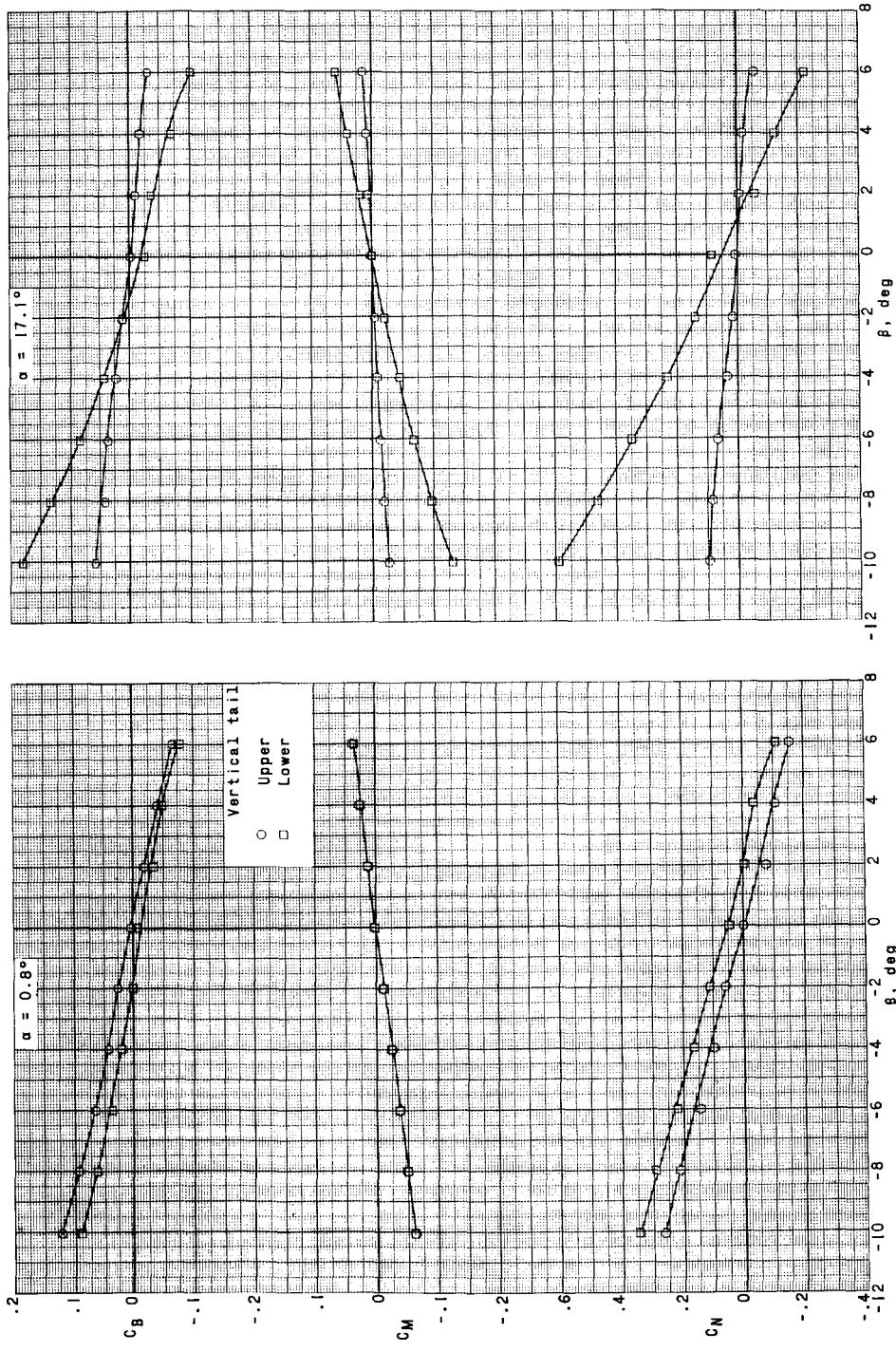
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(c) $M = 4.65; \delta_S = 0^\circ; R = 2.28 \times 10^6$.

Figure 8.- Continued.

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(d) $M = 4.65$; $\delta_S = 35^\circ$; $R = 2.28 \times 10^6$.

Figure 8.- Concluded.

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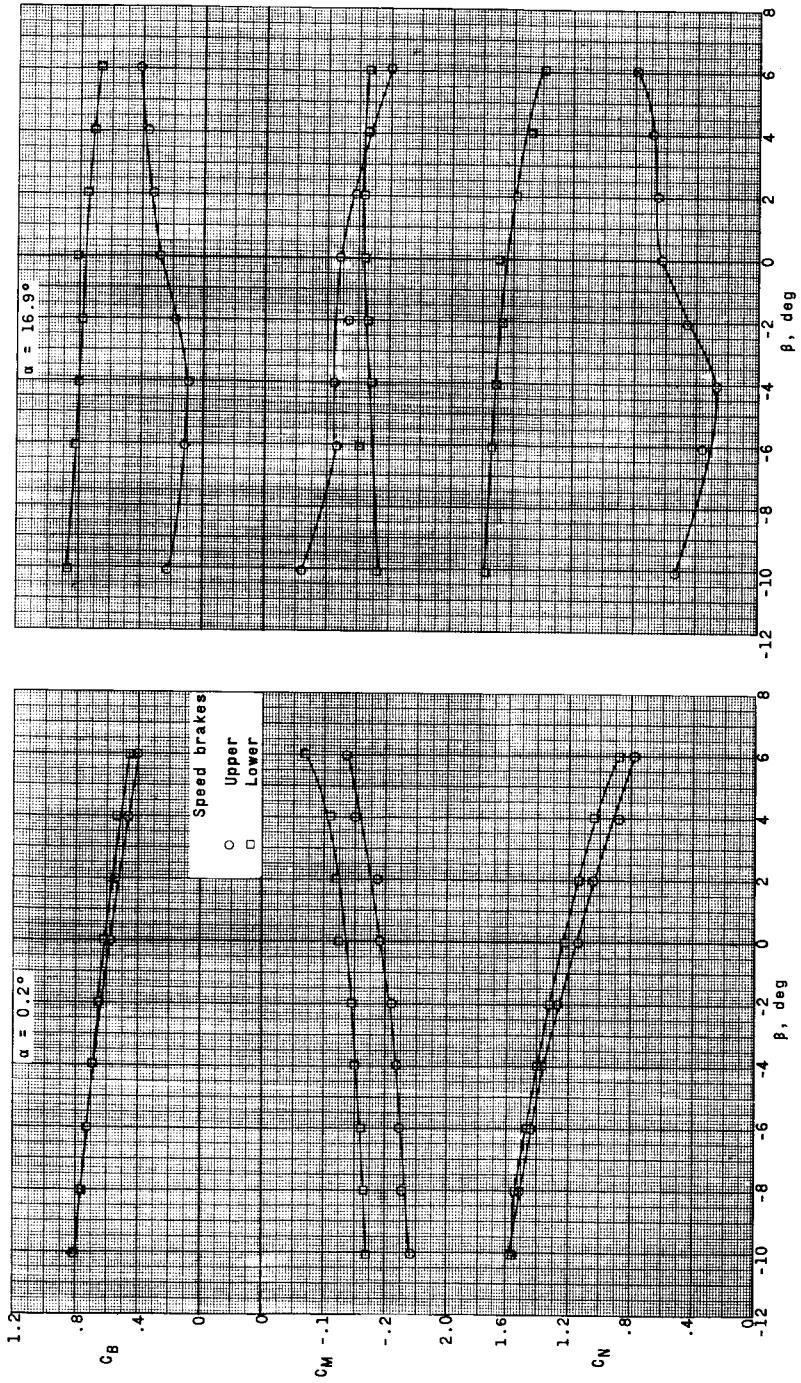
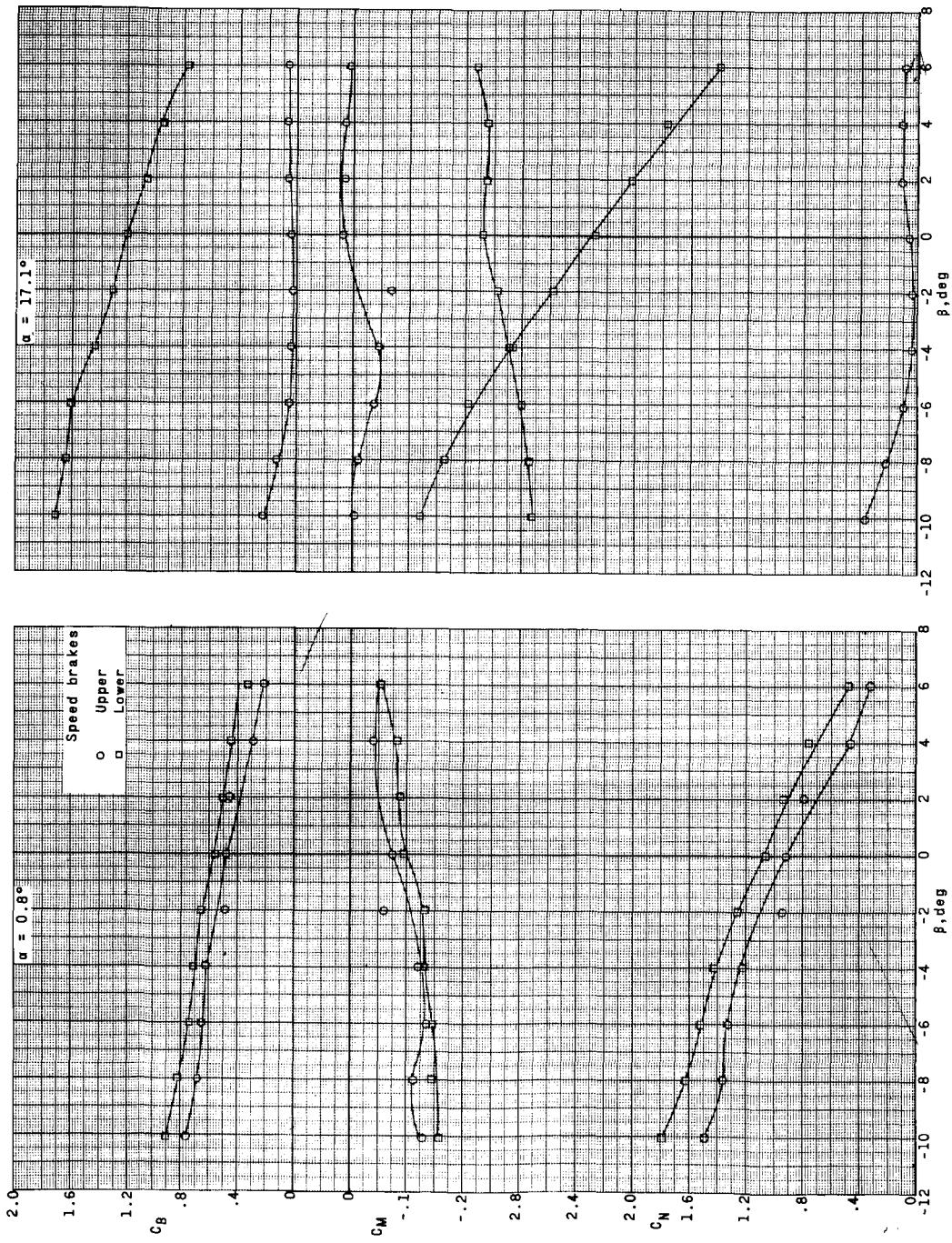
(a) $M = 2.29; R = 1.87 \times 10^6$.

Figure 9.- Surface loading characteristics on the speed brakes deflected 35°. WFFHVv;
 $\delta_{H,L} = \delta_{H,R} = 0^\circ; \delta_v = 0^\circ$;



(b) $M = 4.65; R = 2.28 \times 10^6$.

Figure 9.—Concluded.